# TECHNOLOGY CONSULTING IN THE GLOBAL COMMUNITY

# Final Consulting Report Republic of the Marshall Islands Banking Commission Daisy Nkweteyim and Nikolas Rebovich August 2018

# **Carnegie Mellon University**



# Republic of the Marshall Islands Banking Commission Executive Summary

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# I. About the Organization

The Republic of Marshall Islands Banking Commission was established in 2016 to act as an independent financial supervisory authority in the Republic to responsible for the licensing, regulation and supervision of banks and financial services providers in and from the Republic [of the Marshall Islands]<sup>1</sup>

The Banking Commission reports to the Minister of Finance, the Honorable Brenson Wase, with the financial intelligence unit (FIU) acting as the main anti-money laundering (AML) enforcement body over financial institutions and cash dealers. The organization is divided into three departments, the Financial Intelligence Unit, the Financial Institution Supervision Division, and Financial Sector Development. The Banking Commission has 10 employees, overseen by the Commissioner of Banking, Sultan Korean.

## II. Maintenance of Technology Infrastructure

Many of the improvements made by TCinGC consultants in 2016 have not been maintained. This includes the Banking Commission website, rmifiu.org domain, <u>administration@rmifiu.org</u> email certificate, and the FIU database. This was because Matt and the FIU staff did not have enough practice using and maintaining these improvements daily.

To improve technology sustainability, Matt Muller has been assigned as the main admin for all accounts and is responsible for renewing these accounts when necessary. He has a document that has all relevant passwords and renewal dates, so he can manage all of the Banking Commission's accounts. Matt and the FIU staff also have guides for renewal of the email certificate, maintaining the database, and modifying the website.

# III. Develop Data Modification Skills in the FIU

In the two years since the FIU database was created it has not been modified at all even though changes are necessary to adapt the database to the needs of the FIU. This lack of adjustment is because the FIU staff and Matt do not have to requisite skills to make these changes and they are afraid of corrupting the database if they make a mistake. To develop modification skills, the FIU and Matt were trained to make reports, forms, and tables in Microsoft Access. After the consultant is gone they have access to guides that outline how to make these objects. Lastly, a practice database was made, it's an exact copy of the actual database, to allow the FIU staff to test modifications without worrying about corrupting the real database. The FIU should utilize the practice database to test new objects and adapt the database to their needs by relying on the guides made by the consultant.

<sup>&</sup>lt;sup>1</sup> <u>shorturl.at/dloHW</u>

## **IV. Improve FIU Importation Process**

The original goal of creating a database two years ago was to improve the efficiency of data collection and analysis. Unfortunately, the FIU has struggled to import CTRs and SARs because of an inability to identify and fix importation errors. The most common problems were incorrectly formatted SAR and CTR files. To both improve the number of records imported and the time it takes to import one file the FIU and the consultant held a joint test and importation training. This will give the FIU staff practice dealing with common errors and the steps necessary to import CSV and Excel files. The FIU should continue to practice their importation skills and use their guides to troubleshoot any problems in the importation process.

# V. Website Development

In 2016, a website was developed by consultants disseminate information to stakeholders of the Banking Commission. However, in 2016, there was hardly any information about the Commission. Additionally, very little legislature had been developed to govern banking practices. Since then, the site has not been updated to reflect the current position of the Banking Commission. The consultant developed and updated the content and structure of the website. Matt, the IT specialist was also trained on how to update the website.

## **VI. The Networking of Departments**

The Banking Commission comprises three departments in four offices located in different buildings. It has two internet lines; one connecting Sultan Korean's office and the other connecting the other three offices. Early in the consultation process, the consultant was asked how departments could communicate with each other, and how staff of the FIU could access and work on the database although it was lodged in the manager's computer. The consultant carried out trainings on file sharing and VPN access with members of the Banking Commission. With the trainings, the staff were able to share resources in a secure manner.

#### **Consulting Partner**

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# Republic of the Marshall Islands Banking Commission Final Consulting Report

Student Consultants: Daisy Nkweteyim and Nikolas Rebovich Development Partner: Sultan Korean

# I. About the Organization

#### Organization

The Republic of Marshall Islands Banking Commission was established in 2016 to act as an independent financial supervisory authority in the Republic to responsible for the licensing, regulation and supervision of banks and financial services providers in and from the Republic [of the Marshall Islands]<sup>2</sup>

Its office is located in the capital of the Marshall Islands, Majuro. The Banking Commission reports to the Minister of Finance, the Honorable Brenson Wase, with the financial intelligence unit (FIU) acting as the main anti-money laundering (AML) enforcement body over financial institutions and cash dealers. The organization is divided into three departments, the Financial Intelligence Unit, the Financial Institution Supervision Division, and Financial Sector Development. The Banking Commission has 10 employees total, overseen by the Commissioner of Banking, Sultan Korean.

#### Departments

The Financial Intelligence Unit (FIU) is the main AML body in the Marshall Islands. Its staff consists of Samelda, the manager, and her analyst Sana. The FIU receives monthly Cash Transaction Reports (CTRs) and Suspicious Activity Reports (SARs) from the two financial institutions in the Marshall Islands, the Bank of Guam (BOG) and the Bank of the Marshall Islands (BOMI). This data is imported into an access database that was developed by TCinGC consultants in 2016. The FIU then analyzes the data and recommends further investigation on any suspicious activity, normally recommending a law enforcement investigation.

The Financial Sector Development (FSD) Unit is headed by Neumi Usumaki. This department's function is to assist the Banking Commissioner in the management of all activities related to financial sector development and ensure the effective implementation of key strategies under the Financial Sector Development Plan (FSDP) 2016-2020.<sup>3</sup>

The Financial Institution Supervision Division (FIS) is led by Rendy Johnny. He is assisted by two examiners, one looks at BOMI's financial data while the other looks at BOG's. The FIS looks at both bank's stability to ensure they have enough assets/liquidity in the near future to continue to do business.

<sup>&</sup>lt;sup>2</sup> shorturl.at/dloHW

<sup>&</sup>lt;sup>3</sup> Republic Of The Marshall Islands Office Of The Banking Commission Annual Report 2018.

## Facilities

The Banking Commission has 4 offices on Majuro Atoll, capital of RMI. Souvenir and Matt work on the first floor of the Robert Reimer Enterprises (RRE) Hotel building. They have 2 officesized rooms and a bathroom. The FIS and FSD work on the second floor of the same building with two office sized rooms. The FIU works across the street in a building next to the post office. They have two office sized rooms. Sultan's office is in a housing complex next to the Reimers Hotel. He has an apartment style office with a kitchen, bathroom, and a large meeting table. Our weekly meetings have been scheduled to hold at the conference room in Sultan's office. All offices have sufficient light, A/C units, and locks on the doors. The location of these offices is different from 2016 mainly because the lease on the previous location was not renewed and the whole organization has grown larger in size.

## Staff

The Banking Commission has ten personnel in total:

<u>Sultan Korean</u> is the Banking Commissioner. He manages the Office and is the liaison with national and international financial entities. Additionally, as he builds the Banking Commission staff, he is directly involved in DFIU and FIS intelligence analysis. Currently he uses a desktop computer for sending and receiving emails as well as Microsoft Excel for analysis and monitoring.

<u>Rendy Johnny</u> is the FIS Manager. He has a banking and accounting background and oversees monitoring banks' financial data. Currently he receives Regulatory Return Reports monthly in paper form and manually enters and tracks them in a Microsoft Excel spreadsheet. He also receives balance sheets, income statements and other financial statements which are useful in determining the stability of both the Bank of Guam and the Bank of Marshall Islands. Like Sultan Korean, he mainly uses his computer for email communication and is using Microsoft Office. He manages two examiners, Tracy and Sharon, who monitor bank data.

<u>Tracy Oliver</u> is one of the examiners in the FIS. She works with Rendy to supervise the banks and ensure that they are financially performant.

<u>Sharon Ading</u> is the other examiner in the FIS. She works with Rendy to supervise the banks and ensure that they are financially performant.

<u>Samelda Leon</u> is the FIU manager. She analyzes CTRs and SARs and informs Sultan Korean about any person of interest through the SAR.

<u>Sana Anien</u> is the FIU analyst. Her main job is to import the CTR and SAR reports into an excel document. She will be the main person importing CTRs and SARs into the database.

<u>Mattur (Matt) Muller</u> is the IT specialist for the Office. He oversees all IT related tasks for the Banking Commission as well as the database, website, and email maintenance.

<u>Souvenir Ned</u> is the administrative assistant for the Banking Commission. He handles the financial paperwork for the organization and runs errands for the office. He uses his computer mainly for email communication.

<u>Neumi Usumaki</u> oversees the Financial Sector Development (FSD) unit. He develops policy that financial institutions follow. He works with both the FIS and the FIU to ensure that financial institutions in the Marshall Islands follow these regulations.

<u>Marlynn Lakabung</u> is the analyst working in the FDS. She works with Neumi to aid developing the financial sector of the Marshall Islands.

### Regulations

The Banking Commission gathers the reports sent by the banks, financial institutions, and cash dealers, analyzes these reports for possible activities related to money laundering, financial terrorism, and off-site surveillance. The reports are as follows:

#### Cash Transaction Reports (CTRs)

CTRs are generated for the FIU for all cash deposits and withdrawals of \$10,000 or more from banks and are utilized by any requesting government officials. The report has total amount of money in and out, the date, who made the transaction, and the bank it came through. Law enforcement officials may request from the Banking Commission any information, based on the reports received, when an investigation is being conducted on people of interest who are suspected of money laundering or financial terrorism.

#### Suspicious Activity Reports (SARs)

SARs are generated for the FIU when any sort of suspicious financial activity such as a series of large transactions or financial transactions that do not make sense for the individual or organization. The key elements of the report include the suspect's personal information, the amount of money transacted, the bank it went through, the summary of the type of suspicious activity, and the resulting actions against the suspect.

#### Due Diligence Checks (DDCs)

DDCs are used to background check companies or individuals that wish to do business in the Marshall Islands. The reports are generated when the RMI Office of Commerce and Investment requests additional background information on an individual or entity.

#### Regulatory Return Reports

Regulatory Return Reports are monthly reports submitted to the FIS on the financial condition and performance of financial entities. It allows for the Banking Commission to aggregate data for assessing the performance of the economic industry.

## Communications

Each staff member of the Banking Commission has an office telephone which is frequently used to relay information. They each have an extension number which makes it easy to dial and reach a specific person. This method of communication is used when the callers want quick responses usually from a single individual.

The Banking Commission uses emails to communicate with each other. The emails set up by the previous consultants are below: administration@rmifiu.org Receives the SAR and CTR reports from banks. administration@rmibankingcomm.org Souvenir uses it as the main administrator for general email correspondence. rjohnny@rmibankingcomm.org Email account for Rendy Johnny skorean@rmibankingcomm.org Email account for Sultan Korean mmuller@rmibankingcomm.org Email account for Matt Muller. He also uses his Gmail account MattMuller22@gmail.com sleon@rmifiu.org Email account for Samelda Leon sanien@rmifiu.org Email account for Sana Anien

The office is currently limited to 5 emails on the rimbankingcomm.org domain because Bluehost will not allow more addresses. Due to this the examiners do not have work emails and use their Gmail accounts for inter-office correspondence. Those who do have work emails favor using personal emails for correspondence. We should find a way to increase the amount of emails so that everyone in the office has one, either through Bluehost or another hosting site.

The Banking Commission also established a WordPress website which is used to relay information to the public, potential investors and their stakeholders. This website contains information about the performance of the banking sector, legislation, regulation and relevant news items about the Banking Commission.

## **Technology Infrastructure**

There are two internet lines in the Banking Commission. One that connects Sultan's office and the other that originates from the RRE Hotel and connects the three other offices. Devices are connected on this network. The database originally was housed on Samelda's machine. Currently, it is found on the server's (Souvenir's work computer) public folders so it can be accessed by Sana. The Banking Commission also has a <u>Wordpress website</u> hosted by Bluehost.

The Banking Commission also has telephones which are conceited to each other and have caller ID. Each staff member has a telephone and an extension which they use frequently to relay information to one another. This is the primary means of communication in the Banking Commission.

All computers are using Windows 10 except Samelda. This is because she has an Egmont profile on this computer and will have to redo the Egmont profile installation if her machine is changed.

Primary User	Hardware Specifications	Software Specifications	
Matt Muller	Model: Dell XPS CPU: Intel Core i7-6700 @ 3 GHz	-6700 Windows 10 Home Microsoft Office 2016	
Souvenir Ned	Model: HP ProDesk CPU: AMD A4-6250J APU @ 2 GHz	Windows 10 Pro Microsoft Office 2016	
Samelda Leon	Model: HP ProDesk CPU: AMD A4-6250J APU @ 2 GHz	Windows 7 Home Microsoft Office 2016	
Sana Anien	Model: Dell XPS CPU: Intel COre i7-6700 @ 3 GHz	Windows 10 Home Microsoft Office 2016	

#### **Technology Management**

Matt Muller manages the technology infrastructure at the office. He maintains the internet and fixes any software or hardware problems. All of this maintenance is done on an ad hoc basis. He also is the administrator for staff emails and accounts related to the running of the office. These include all the office email accounts, the Banking Commission website, the GoDaddy and Bluehost hosting accounts, and the Zoho email account.

Below are the functions of each site:

#### **BlueHost**

Hosts the domain rmibankingcomm.org. This domain has the rmibankingcomm.org emails as well as the Banking Commission's website at rmibankingcomm.org.

#### **GoDaddy**

Hosts the domain rmifiu.org for the Financial Intelligence Unit of the Banking Commission.

#### Zoho Emails

Email hosting for rmifiu.org is done through Zoho. It gives the FIU 10 free emails. Zoho hosts the emails for the FIU Unit (Samelda and Sana) as well as <u>administration@rmifiu.org</u> that receives CTR and SAR reports from BOG and BOMI.

It should be noted that Matt only became the main account holder for GoDaddy recently and was unaware of the account, leading to the account not being renewed in 2017. In the future he will be the main administrator for the website, emails, and domains for the Banking Commission.

### **Information Management**

### I. Current State

#### Website

Information in the Banking Commission is usually communicated using office telephones and emails. Invoices usually arrive the Banking Commission in a paper-based format. The invoice is handed to Souvenir, the administrative assistant who then forwards the invoice to Finance. Finance then releases the funds.

The website currently contains four pages:

- Home
- Legislation and Regulation
- About Us
- Contact Us
- The Home page contains general information about the Banking Commission and how it was formed.
- The Legislation and Regulation page contains the Banking Act and the Anti-Money Laundering Regulation.
- The About Us page contains information of the Banking Commission as it was in 2016 and the roles and responsibility of the Office.
- The Contact Us page has the telephone number of Sultan, the Commissioner of Banking displayed on the page. Additionally, the form is being sent to Rendy, the Financial Institution Supervision Division manager.

### **Receiving Reports by Secure Email**

The FIU receives monthly Cash Transaction Reports (CTRs) and Suspicious Activity Reports (SARs) from the two financial institutions in the Marshall Islands, the Bank of Guam (BOG) and the Bank of the Marshall Islands (BOMI). These reports are supposed to be emailed to an encrypted email at administration@rmifiu.org, with Samelda Leon being the only user. Samelda would then import the files into the database.

Unfortunately, the digital signature in outlook and the GoDaddy hosting domain both expired so the office has been unable to receive the reports securely. In that time, BOMI's data has been received in paper form and typed in manually while BOG's data has been imported by CSV file through their encrypted online portal. After Samelda downloads BOG's files they are saved on her computer. Even though it is secure, Sana cannot import BOG's data because she

does not have her own login access. rmifiu.org should be reutilized with a GoDaddy renewal and a new certificate to import reports from BOMI. Additionally, Sana should make an account in BOG's portal to access its reports.

#### Database

In 2016 student consultants from the TCinGC program made the FIU database in Microsoft Access. This database is designed for CTR and SAR reports. The database is currently not being used. This is due to various reasons including:

-Importing data causes errors that the FIU staff do not know how to resolve including duplicate primary keys, mismatched column names, and data formatted incorrectly. FIU staff do not know how to identify the error and fix it.

-The SAR table has too many required fields. If a required field is not filled the data cannot be imported.

-With BOMI only sending paper copies the FIU is using their checklist to record reports. This checklist is not formatted the same as the database. This makes importing the data from this excel file difficult.

#### II. Problems and Solutions Website

The Banking Commission has grown over the last two years and has developed and approved of many more legislative pieces and regulation. The Legislation and Regulation webpage does not currently reflect the progress of the Banking Commission and needs to be updated with the relevant documentation.

The About Us page also needs an update with respect to the development of the Banking Commission. It has acquired more employees, more positions and more departments. Each of these departments are engaging in work that will be beneficial to the financial well-being of the Marshall Islands. This evolution needs to be reflected on the website.

In 2016 when the website was developed, the Banking Commission was a four-man team. As a fledgling organization, it made more sense to have Sultan's phone number as a point of contact. With the growth of the Banking Commission, they have acquired office telephones and hired an administrative assistant who will answer for the Banking Commission.

When the contact form is filled, it is sent to Rendy. The task of responding to emails and/or forwarding emails to relevant avenues is more of an administrative duty. Therefore, contact forms will be sent to Souvenir, the administrative assistant for the Banking Commission.

#### Database

The FIU staff are unable to modify or maintain the database for their needs. The database has been unmodified since its creation in 2016 because the staff is afraid of breaking it. To fix the problems outlined above the FIU staff should have trainings to practice making and modifying the database as well as an importation training to identify and rectify importation errors. These

trainings should be applied with actual importations and modifications with BOG and BOMI reports.

The consultant will also change the formatting of the SAR table so that only the primary keys, SAR ID and Social Security number or EIN, are required fields. Frequently the FIU receives SARs that do not have data in all the required fields. Removing these requirements will allow the FIU to import SAR files that do not have all the data.

The FIU staff also need a printable document for individual SARs or CTRs for the Banking Commissioner. Currently Samelda reformats the excel file with the SARs or CTRs into word, but it is time consuming and tedious. The consultant will make one report for CTRs and another for SARs that are easy to read and reflect the format of the written document. (Appendix S and T)

Another problem is the database can only be accessed by Samelda because it is saved on her computer as a local file. Sana's main job is to import the reports, but she cannot do that if she doesn't have access to the database on her computer. The database should be put on the office network so both Sana and Samelda can access its records. It will retain its password to ensure file security.

#### **Receiving Reports by Secure Email**

The Banking Commission must have a more robust system to maintain domain and email accounts. Since there was no administrator both the GoDaddy domain account for rmifiu.org and the Comodo email certificate for <u>administration@rmifiu.org</u> expired FIU staff were forced to use their personal Gmail accounts for work correspondence. It also led to BOMI to resume sending written reports instead of electronically. This forces the FIU to manually type in the information; reducing efficiency and time better spent on report analysis. To rectify this, Matt Muller will be designated administrator for all domain, email, and website accounts. He will also oversee renewing the email certificate for rmifiu.org. He will be given a document will all Banking Commission accounts with relevant passwords and renewal dates (Appendix G). Since the Comodo certificate (Appendix I).

#### **Business Systems**

The Banking Commission reports to the Ministry of Finance and is part of the government. As a result, all business processes such as accounting and hiring go through them. The Banking Commissioner, Sultan Korean, will fill out the necessary paperwork and send it to its proper destination. They are currently in the process of establishing their Operational Statement and Budget for next year, which must be approved by the Minister of Finance, Honorable Brenson Wase.

The Banking Commission must also comply with international standards defined in the financial Action Task Force 40 recommendations. These deal with the necessity to collect, analyze and disseminate information, and those that deal with international cooperation.

# II. Maintenance of Technology Infrastructure

#### Motivation

Many of the improvements made by TCinGC consultants in 2016 have not been maintained. This includes the Banking Commission website, rmifiu.org domain, <u>administration@rmifiu.org</u> email certificate, and the FIU database. This was because Matt and the FIU staff did not have enough practice using these improvements daily. They also lacked the skills to adapt the technology infrastructure to the organization's needs.

To improve technology sustainability, Matt Muller has been assigned as the main admin for all accounts and is responsible for renewing these accounts when necessary. He has a document that has all relevant passwords and renewal dates so he can manage all of the Banking Commission's accounts (Appendix G).

The main objective of the website is to disseminate information about the Banking Commission to its stakeholders. These include international bodies such as the IMF and the world bank and domestic institutions such as the various banks in the Marshall Islands. Currently the WordPress website is bare and hasn't been updated since the last consultants left in 2016. More recent content has to be uploaded to the site and the UX design needs some improvement. The WordPress website is currently hosted by Bluehost.

#### Outcomes

The FIU can securely import SARs and CTRs electronically through the rmifiu.org email. This process is be more efficient than typing in each record and will allow them to spend more time on analyzing the reports. Both Sana and Samelda have access to administration@rmifiu.org and the database. Matt has also practiced renewing and installing the Comodo certificate necessary for BOMI to securely send the FIU an electronic copy of their reports.

Activities:

-Renew GoDaddy domain at rmifiu.org and renew Comodo certification for digital signature -Import SARs and CTRs from banks through rmifiu.org

-Give Matt Muller administrative access to all electronic Banking Commission accounts and a document with all account and renewal information

-Put backend database on the network

-Work extensively with Matt to ensure he can put up appropriate content for the website whenever the need arises.

-Wrote documentation and guides to aid in the process of maintaining technology infrastructure.

#### Output:

-Banking Commission Account and Renewal Document (Appendix G)

-Certificate renewal and installation guide (Appendix I)

-How to Link Backend Tables to Frontend Database (Appendix N)

-A web administrator who will be able to update content of the site.

#### Recommendations

Matt Muller should be the main manager for all technology account information. He should keep the account/renewal document up to date and alert Sultan Korean to any impending renewals.

Since the Banking Commission does not have a standardized process to pay for services over the internet, Sultan must be notified with enough time to figure out a way to pay. Matt will also be the main person to renew the Comodo email certificate for the FIU and move the FIU database if necessary. He should refer to the guides made by the consultant to illustrate how to perform these tasks.

# **III. Develop Data Modification Skills in the FIU**

### Motivation

In the two years since the FIU database was created it has not been modified at all even though changes are necessary to adapt the database to the needs of the FIU. This lack of adjustment is because the FIU staff and Matt do not have to requisite skills to make these changes and they are afraid of corrupting the database if they make a mistake. To develop modification skills, the FIU and Matt were trained to make reports, forms, and tables in Microsoft Access. After the consultant is gone they have access to guides that outline how to make these objects. Lastly, a practice database was made, it's an exact copy of the actual database, to allow the FIU staff to test modifications without worrying about corrupting the real database.

## Outcomes

Activities

-Hold Database modification tutorial
-Sana, Samelda, and Matt make CTR and SAR table, form, and report
-Standard Operating Procedure for Modifying FIU Database
-CTR and SAR Printable Reports (Appendix S and T)
-Due Diligence Table and Report (Appendix H)
-Make copy of Database for Practice Database

Guides

-How to make a table in Access 2016 (Appendix J)
-How to make a form in Access 2016 (Appendix K)
-How to make a report in Access 2016 (Appendix L)
-New Table from Data in Access (Appendix M)
-How to Import from a Database (Appendix O)
-Standard Operating Procedure to Modify FIU Database (Appendix U)

Trainings and Output

A database modification tutorial was held in week 4 to show Sana, Samelda, and Matt how to create a simple table, form, and report in Microsoft Access 2016. They followed Nik's instructions step by step, along with their written guide, to make the three objects. All three staff members were able to make a table, form, and report.

The second training required Sana, Samelda, and Matt make a CTR table, form, and report in addition to a SAR table form and report. They used the guides "How to Make a Table", "How to Make a Form", and "How to Make a Report" to assist them if they had any problems. This gave them experience making these objects without the help of a tutorial or relying directly on the consultant. They also became familiar with the structure of the database. This will allow them to adapt the database to their future needs. Each staff member was able to make the six objects required in the training. In addition, Sana made a table and report for Due Diligence Checks

(DDCs). The DDC is a new form for the FIU to record background checks on individuals and business entities. This allowed her to practice the skills she learned in training on a real object she created on her own.

#### Recommendations

Since the FIU is mostly utilized as a data repository for CTRs and SARs data modification is not a common occurrence. Since these skills will not be habitual, the FIU must rely on the data modification guides to create or change objects in the database. These guides are located in the public folder on Samelda's and Souvenir's computers. The consultant also has copies of the guides if they are lost.

When modifying the database the FIU should consult the Standard Operating Procedure for Modifying FIU Database. This document outlines making an object in the practice database first (this database is an exact copy of the database without CTR and SAR records). This will ensure the object works correctly in the practice database before it is made in the actual database. This will prevent the database becoming corrupted and inoperable. It also gives FIU staff the ability to practice their modification skills without worrying about losing important data.

# **IV. Improve FIU Importation Process**

### Motivation

The TCinGC consultants developed an access database in 2016 for the importation of SARs and CTRs to improve the efficiency of data importation and analysis. Along with the email problems stated in the organization section, the office has also struggled to import incorrectly formatted data into the database. This includes mismatching column names, repeating primary keys, and field formatting issues. These problems are easily fixable for someone who has experience dealing with dirty data. These problems are also taking time away from the more important task of analyzing reports. The FIU staff, Samelda and Sana, were trained and tested to identify and fix data importation problems so they can spend more time on analysis. Matt Muller should also be a participant in these trainings as backup support in case the FIU staff cannot solve the problem.

#### Outcomes

Activities

-Administer Importation test for FIU staff in week 6 for baseline and week 10 for measurement.

-Make guide to identify and fix importation errors (Appendix P)

-Make How to Import a CSV file into Access (Appendix Q)

-Make How to Import an Excel file into Access (Appendix R)

#### Importation Test

A guide was made for the FIU to identify importation errors and indicate how to fix the error (if the FIU had to fix it or the bank). Sana and Samelda used this guide to help them through the baseline importation test in week 6 and the final test in week 10. This test has five CTR practice files which each have an error. FIU staff had to first attempt to import the file, read the error message after the importation was unsuccessful, identify the error, fix the error, and finally successfully import the file into the database.

Based on these tests Sana and Samelda were able to identify 3 out of 3 importation errors (mismatching field names, duplicate primary keys, and incorrectly formatted data). This is an improvement from before when Sana and Samelda were unable to identify any of these errors. They would automatically call Matt Muller, but he was unable to fix the errors either. This led to the FIU staff not using the database and reverting to typing in reports manually into an excel spreadsheet. Now the FIU staff is trained to deal with these common errors they will be able to consistently import CTR and SAR reports, saving them time.

#### Measurements

In terms of time the FIU decreased data importation by 92% compared to receiving the report in a paper format and typing it in manually. It takes Sana 4 minutes to import a CSV CTR file into the database if there is an error in the file. It takes Sana 4 minutes to manually type in one CTR record into the database. The FIU receives an average of 6 CTRs per work day. Therefore 24-4=20 minutes saved per day. 20/24=83% time saved per day by importing a CSV file instead of manually typing every BOMI CTR.

The FIU is in the process of importing all reports securely from the rmifiu.org email into the database. They have imported 117 CTR reports and 206 Person in Transaction Reports. This is roughly how many records were imported before the start of the consultation in 2018. 3% importation of reports from rmifiu.org into the database (100 CTR records were imported to the database between 2016 and 2017 while the database was operating out of a total of 3200 CTR records in total).

Based on the importation test both Sana and Samelda decreased the time it takes them to identify and correct an importation error. In week 7 it took Sana 20 minutes to identify and correct 5 importation errors. In week 10 it took her 11 and a half minutes with similar errors. This represents a 43% improvement in efficiency. Samelda also showed improvement going from 14 minutes in week 7 to 11 minutes in week 10. This is a 21% improvement in efficiency. During both tests at least 90% of the test was completed without outside help from the consultant.

#### Recommendations

The FIU must consistently import files to practice the skills they have learned. Continual reinforcement of the training skills will solidify the FIU's ability to identify and correct formatting issues. This practice will also improve the efficiency of the importation process over time leading to very little time used to import files.

The FIU must identify and correct bank formatting errors. BOG and BOMI have column names that are misspelled or do not match up with the column names in the database. While these are easy to fix, importation will go quicker if the banks are notified of these problems and fixed. This will allow the FIU to import CTR and SAR files with less time devoted to fixing errors.

The FIU must make sure BOMI send them electronic records. Currently BOMI is still sending CTRs and SARs in paper format. The Banking Commission must ensure BOMI starts sending electronic copies of the reports as soon as possible. This will reduce the amount of time Sana spends importing files and will reduce the amount of time BOMI spends writing the reports.

# V. Website Development

#### Motivation

The Banking Commission in the Marshall Islands is one of the key parts of government. In 2016, a website was developed by consultants to disseminate information to stakeholders of the Banking Commission. However, in 2016, there was hardly any information about the Banking Commission. Additionally, very little legislature had been developed to govern banking practices.

Matt, the IT technician who would have maintained this website was hired approximately two weeks before the consultants left. In his new role, he did not acquire skills needed to maintain the site. He therefore, was not overtly involved in the development of the website and could not effectively maintain it. This was the main reason the site had not been maintained when the content did eventually become available.

The Banking Commission website is to serve as a communication tool between the Banking Commission and its stakeholders. Some of the Banking Commission's stakeholders is the IMF, the World Bank, the Asia/Pacific Working Group on Money Laundering, international and domestic banks and shareholders. As such, it is imperative that the website contains relevant information that would be useful to these stakeholders and the public.

#### Outcomes

The first thing the consultant did was to discuss with staff of the Banking Commission and gain their perspective of content that they would like to have on the website. The consultant offered different ideas with respect to the kind of content that would be relevant to the Banking Commission. With an idea of what content would be included on the website, a model was developed. During the weekly executive meetings, the consultant demonstrated how these wireframes would form the blueprint of the website (see Appendix A). The wireframes were then reviewed, and more suggestions were made based on the blueprint.

The webpages that formed the base of the existing website were modified to reflect the current position of the Banking Commission. These webpages are:

- Home
- · About Us
- · Legislation and Regulation
- · Contact Us

There were a couple of webpages added from the existing base. These webpages are:

- · Annual Reports
- Bank Data
- · Relevant Links
- · Gallery
- Bios

- FAQ
- News and Events

#### Improvements

The Home and About Us pages were modified to reflect the current position of the Banking Commission. The About Us page was modified to include information about all the departments in the Banking Commission that had been formed since 2016. The Legislation and Regulation page was improved with updated content. In 2016, there were two pieces of legislature on the site; the Banking Act and the Anti-Money Laundering Regulation. Since then, more legislature has been developed. The consultant included content related to directives, guidelines and reports.

The Contact Us page was modified to include a reCAPTCHA to prevent spam. In 2016, when the website was developed for the first time, it was a four-man team consisting of Sultan, Samelda, Rendy and Matt. As a fledgling organization, it was more sensible to have Sultan's phone number displayed for a telephone number. However, with the expansion of the Banking Commission, an office telephone was acquired which was then used as the telephone contact. Additionally, the consultant changed the recipient of the contact form to the Banking Commission administrative assistant, Souvenir who had not yet been hired when the website was first created. When Souvenir receives emails through the contact form, either he answers inquiries or redirects emails to the relevant avenues for a response.

#### Additions

- The FAQ page was an addition that featured questions and answers such as: 'How to acquire a banking license?' and 'How to report suspicious activity?'.
- The gallery page contained gallery photos organized in groups of workshops, seminars and programs.
- Bank Data was also a new addition. The bank data webpage consists of quarterly reports of consolidated bank data of Bank of Marshall Islands and Bank of Guam. Due to the sensitivity of the data, it is important that approval is gotten from Sultan before adding the data to the website as content.
- The Annual Reports page contains the annual reports of the progress of the Banking Commission.
- The Bios page contains information of the managers of the Banking Commission and Sultan and the work they do.
- The Relevant Links page contains information about the various stakeholders of the Banking Commission.
- The News and Events page contains information about the news items and press releases of the Banking Commission.
- The website theme was also changed to one with responsive design to cater to all devices and to improve user experience.

To ensure that the website is maintained while I'm gone, the consultant worked extensively with Matt, the IT technician and included him in many of the discussions throughout the development of the wireframes and website itself. He was instructed on how to create new web pages and how to include different types of content to the website (see Appendix B). Before departure from the Marshall Islands, a list of tasks was created for him to carry out to further improve technical skill and know-how required to maintain the website and keep it updated which he started.

#### Recommendations

The consultant recommends that the website be updated at least once a quarter. Three months will provide enough material to be acquired that could be added to the website. Consolidated bank data records are compiled on a quarterly basis and is imperative for potential investors to be kept up to date with the financial performance of the Marshall Islands' banking sector. Once a quarter should be the longest period gone without an update to the website. With every news or press released, the website ideally, should be updated with the relevant press.

# **VI. The Networking of Departments**

## Motivation

On the first few days of working with the Banking Commission, Matt, the IT technician asked me a question. For context: Samelda, the FIU manager has the database on her machine. Sana would be working with her. However, Sana does not have access to the database because it was stored on Samelda's machine. Was it possible for Sana to access work on the database on Samelda's work computer?

During the first two weeks of requirements gathering, some departmental staff had mentioned the fact that they wanted to be able to share files with each other without having to waste time transferring these files with a flash drive. It was also stated that it would be better if these folders are kept in a central store so that they can be accessed between departments when necessary.

These two instances were related. How can information be shared between and across departments?

The Banking Commission has 4 separate offices. In this configuration, there are two internet lines; one connecting the Banking Commission office, the FIS/FSD and extends to the FIU and the other connecting Sultan's office.

It was apparent that the Banking Commission needed a means to communicate with each other. In addition to this, the Banking Commission had some problems connecting some printers. There were some printers that would disconnect and would not reconnect themselves again whenever the router in the Banking Commission main office was rebooted.

### Outcomes

The consultant initially created a document where files could be shared between members of the FIS. However, after review of the document and from relevant feedback, a central store was proposed to store all documents from the departments. With this feedback, I developed another document (see Appendix C). Souvenir's machine was designated as a server where files would be stored. There were folders designated to hold material for the FIS, FSD and FIU. As a result of these configurations, Sana, the FIU analyst can now access the database on her work computer instead of using Samelda's, the FIU manager in a time efficient manner. Before the configurations, it took on average three minutes and eighteen seconds for files to be transferred using a flash drive as opposed one minute and two seconds to access that file on the network. This saved two minutes and sixteen seconds on average which could then be used for other tasks.

The routers in the Banking Commission office, FSD/FIS and FIU were configured to act as wireless repeaters. Their DHCP applications were turned off and their IP addresses were delivered by the main router in the Banking Commission office. With the main router at the

Banking Commission, handing out IP addresses and the routers in the other offices being statically enabled, printing problems had ceased.

When the consultant first arrived, Samelda, the FIU manager was off island for a work function. During some point in our stay in the Marshall Islands, each of the managers and Sultan were not in office either because they were off island on mission or because they had taken their leave of absence. During this time, they could not access files which they had been working on while in office. Therefore, the Banking Commission router was configured to accept VPN connections from the managers and Sultan (see Appendix D). For clients to access the network, see Appendix E

### Recommendations

Files must be backed up at once a week in preparation of system failure. The consultant recommends following the standard operating procedure for backing up the files on server (see Appendix F). If the server crashes, then those files are lost. However, with a backup, files can be saved and retrieved if there ever is a system failure. This will save time in reproducing the documents if the server crashes.

# **VII. Additional Recommendations**

#### **Design a Seal for the Banking Commission**

The Banking Commission and many other government organizations in the Republic of the Marshall Islands do not have an official seal to identify their branch of government. The consultant recommends a seal be designed for official use by the Banking Commission.

### Acquiring an SSL Certificate for the Website

Additionally, the consultant recommends acquiring an SSL certificate for the website. Certificates are used in websites to ensure secure connections between web browsers and servers. The Contact page of the website contains fields which can be filled by a user. An SSL certificate can prevent hackers from acquiring the information input in those fields. Additionally, secure websites given high rankings in search results which makes it easier to find on the web.

- SSL certificates can be purchased from platforms and hosting services such as GoDaddy.
- Comodo provides free certificates valid for ninety days.

#### **About the Consultants**

Daisy Nkweteyim is graduate student in the Information Systems Management program at Carnegie Mellon University. She will move to Pittsburgh to finish her degree following the Technology Consulting in the Global Community program.

Nikolas Rebovich is a graduate student in the Masters of Public Policy and Management program in the Heinz College at Carnegie Mellon University. He will be returning to Carnegie Mellon University in the fall to finish his program following the Technology Consulting in The Global Community internship over the summer.

## **List of Appendices**

#### Website Development

Appendix A: Wireframes Appendix B: Website Development Tutorial

#### **Networking of Departments**

Appendix C: File Sharing Over a Network Appendix D: VPN Connections Appendix E: Access with a VPN Appendix F: SOP for Backup of Network Files

#### Sustainable Technology Infrastructure and FIU

Appendix G: Banking Commission Account and Renewal Document Appendix H: Due Diligence Table Appendix I: Certificate renewal and installation guide Appendix J: How to make a table in Access 2016 Appendix K: How to make a form in Access 2016 Appendix L: How to make a report in Access 2016 Appendix M: New Table Importation Guide Appendix N: How to Link Backend Tables to Frontend Database Appendix O: How to Import from a Database Appendix P: Common Importation Error Guide Appendix Q: How to Import a CSV file into Access Appendix R: How to Import an Excel file into Access Appendix S: CTR Printable Report Appendix T: SAR Printable Report Appendix U: Standard Operating Procedure to Modify FIU Database

# **Appendix A: Wireframes**

#### The Home page



#### The About Us page



#### The News page



#### The Events Page



#### The Frequently Asked Questions page



### The Contact Us page

Officia	al Website of the Banking Commission			
	Home About Us Legislation FAQ Contact Us	Q		
	Contact Us:			
Home About Us	RMI OFFice of the Banking Commission POBox 1408 Majuro, MH 96960 Teti (692)625-3:30/6309 Email: administration@rmilaanking.comm.org	Legislation Aggregated Date		
News and Event	Name:			
FAQs				
Bios	Email:			
Financial Yearly				
Gallery	Subject:			
	Message:			
	<i>/</i> .			
	Enter the text helow:			
	cAptcha			
	Button			

#### The Legislation page

Banking Commission Official Website of the Banking Commission					
	Home About Us	Legislation	FAQ	Contact	Q
Home About Us News and Event FAQs Bios Financial Yearly Gallery	Link 1 Link 2 Link 3				Legislation Aggregated Date

#### The Bank Data page



#### The Future Plans page



#### The Gallery page



#### The Annual Reports Page

Banking Commission         Official Website of the Banking Commission         Home       About Us       Legislation       FAQ       Contact Us       Q         Home       About Us       Legislation       FAQ       Contact Us       Q         Home       Banking Commission Report Y2k*       Legislation       Bank Data         About Us       Banking Commission Report Y2k*       Bank Data         News and Events       Banking Commission Report Y2k*       Banking Commission Report Y2k*         FAQs       Banking Commission Report Y2k*       Banking Commission Report Y2k*         Bios       Yearly Reports       Gallery         Plans       Home       Home	000	Site Title				
Home About Us Legislation FAQ Contact Us Q Home Banking Commission Report Y2k# Legislation Bank Data About Us Banking Commission Report Y2k# Bank Data News and Events Banking Commission Report Y2k# FAQs Banking Commission Report Y2k# Yearly Reports Gallery Plans	Banking Commission Official Website of the Banking Commission					
Home About Us News and Events Banking Commission Report Y2k# FAQs Bios Yearly Reports Gallery Plans		Home About Us Legislation FAQ Contact Us	Q			
	Home About Us News and Events FAQs Bios Yearly Reports Gallery Plans	Banking Commission Report Y2k# Banking Commission Report Y2k# Banking Commission Report Y2k#	Legislation Bank Data			

#### The Bio page



# **Appendix B: Website Development Tutorial**

The WordPress website dashboard contains several icons that aid in website development. They include:

**Media**: This tab contains a library of media items used on the website such as images and forms. More media items such as audio can be added through the media tab unto the website.

**Pages:** This tab houses the web pages of the website. There are currently 21 published webpages. **Appearance**: This tab is responsible for the theme's look and feel.

**Plugins:** Plugins are external software that can be plugged into the site to increase functionality. The site has 14 active plugins which include the Photo Gallery Plugin, AWSM Team plugin and Contact Form 7 plugin. These all aid to increase the site's functionality.

To add pages to the site:

- 1. Go to Pages
- 2. Click 'Add New'
- 3. Add Content
  - a. This can include media files and gallery photos. Also, allowance is made for text modification. It is important to keep the end-user experience when creating a page
- 4. Click Publish.

After clicking on publish, these pages exist with a designated URL, however, there is no way for the end user to access these pages. To be accessed by the end user, pages can be added as menu items to the webpage.

To add pages as menu items to a webpage:

- 1. Go to Appearance.
- 2. Click on Menu.
- 3. Select a menu to edit (or create a new one)
- 4. Then mark the checkbox of the pages to add to the specified menu and click 'Add to Menu'
- 5. Organize the menu structure to reflect the order in which the menu items appear.
- 6. Determine the display location of the menu either at the top or at the footer.
- 7. Click 'Save Menu'.

#### Widgets

An important aspect of the Appearance tab is the **widget.** Widgets provide and interface for an end-user to access a service. Widgets includes audio players, calendar of events and even a photo gallery slideshow. They can also be navigational menus.

Although a page has been created and added to a menu, the end-user will only be able to access that menu if it is seen on the page. Therefore, the menu can be included to the navigation menu widget. In the Banking Commission website, the menu is found on the left sidebar.

#### Plugins

Plugins provide increased functionality for a WordPress website. Some plugins which are worthy of note are:

**The Photo Gallery plugin**: It provides functionality for the Gallery webpage. The Alt/Title provides a summary of the photo. Alt/Titles are indexed by search engines and provide the text for photos. The description is a more in-depth summary of the photo. This plugin provides short code that can be added to the webpage.

**The AWSM Team plugin:** This plugin provides functionality for the Bios webpage. Teams and members of each team can be added along with their designation. Presets and Styles are chosen for each team and translated into short code for use on the webpage.

**Contact Form 7**: This plugin provides functionality for the Contact Us Page. It includes the name, email, subject and message and other form tags that provide information about the sender. The mail from the contact form is configured to be sent to <u>administration@rmibankingcomm.org</u>, which is for Souvenir, the administrative assistant.

**Yoast SEO (Search Engine Optimization):** This plugin improves the webpages to be better indexing and optimization by search engines. It provides functionality such as on-page content analysis and XML sitemaps.

**Statistics:** This plugin provides site analytics and statistics. It provides information about the users accessing the site (browsers, referring sites). Other information provided include the number of visitors, the number of visits of each page, the top 5-page trending stats.

With the addition of more and new types of content, more plugins can be installed to handle the increased functionality.

# **Appendix C: File Sharing Over a Network**

#### **Sharing Files Over a Network**

This tutorial serves as a guide for sharing files and folders securely over the same network. This is for Windows 10, although the tutorial can be adapted for other versions of Windows.

1. First make sure all devices to be shared are on the same network.



2. Second, you want to make sure that your computer can be discoverable on the network when sharing files. To do this,

a. Click on the Windows icon on the taskbar and type 'Settings'. Select Settings.


#### b. Then select 'Network & Internet'

	Find a se	etting	Q	/
System Display, notifications, power	Devices Bluetooth, printers, mouse	Phone Link your Android, iPhone	Network & Internet Wi-Fi, airplane mode, VPN	Personalization Background, lock screen, colors
Apps Uninstall, defaults, optional features	Accounts Your accounts, email, sync, work, family	Time & Language Speech, region, date	Gaming Game bar, DVR broadcasting, Game Mode	Ease of Access Namator, magnifier, high contrast
Cortana Cortana language. permissions. notifications	Privacy Location. camera	Update & Security Windows: Update, recovery. backup		

#### c. Click on 'Sharing options'

← Settings		- o ×
🐵 Home	Status	
Find a setting	Network status	Have a question? Get help
Network & Internet	Mill BC WFF Photo retwork	Make Windows better Give us feedback
<i>∕i</i> a Wi-Fi	You're connected to the Internet	
ී Dial-up	If you have a limited data plan, you can make this network a metered connection or change other properties.	
** VPN	Change connection properties	
<sup>a</sup> <sub>2</sub> ∼ Airplane mode	Show available networks	
(4) Mobile hotspot		
🕒 Data usage	Change adapter options View network adapters and change connection settings.	
Proxy	Sharing options For the networks you connect to, decide what you want to share.	
	of HomeGroup Set up a homegroup to thate pictures, music, files, and printers with other PCs or your netheral.	
	Network troubleshooter     Lagence and fix network problems.	
	View your network properties	
	Windows Firewall	
= 0 🔒 🛅 🗠 🙋 🄇	) 🗏 🤻 🛄 🗖 🚺 🔍 🖉 👘	40 🐜 🕼 🌮 ENG 11:52 AM 📮

d. There are two network profiles available: Private (which is the current profile for the RMI-BC-Wifi network) and Public. Private networks are those in places like your homes and public networks are those in public places like restaurants. You don't usually want your devices to be discoverable on public networks.

Private (current profile)
Network discovery
When network discovery is on, this computer can see other network computers and devices and is visible to other network computers.
Turn on network discovery
Turn on automatic setup of network connected devices.
○ Turn off network discovery
File and printer sharing
When file and printer sharing is on, files and printers that you have shared from this computer can be accessed by people on the network.
Turn on file and printer sharing
○ Turn off file and printer sharing
HomeGroup connections
Typically, Windows manages the connections to other homegroup computers. But if you have the same user accounts and passwords on all of your computers, you can have HomeGroup use your account instead.
Allow Windows to manage homegroup connections (recommended)
O Use user accounts and passwords to connect to other computers
Guest or Public

e. We are not currently on a public network, therefore under 'Guest or Public' make sure to click on 'Turn off network discovery'.

Change sharing options for different network profiles
Windows creates a separate network profile for each network you use. You can choose specific options for each profile.
Private (current profile)
Guest or Public
Network discovery
When network discovery is on, this computer can see other network computers and devices and is visible to other network computers.
O Turn on network discovery
Turn off network discovery
File and printer sharing
When file and printer sharing is on, files and printers that you have shared from this computer can be accessed by people on the network.
• Turn on file and printer sharing
○ Turn off file and printer sharing
All Networks

f. All networks include both public and private networks. For file sharing, it is important to '**Turn on** sharing so anyone with network access can read and write files in the Public folders'.

I Networks	- 0
Public folder sharing	
When Public folder sharing is on, people on the network, including homegroup members, c access files in the Public folders.	an
Turn on sharing so anyone with network access can read and write files in the Public folders	
<ul> <li>Turn off Public folder sharing (people logged on to this computer can still access the folders)</li> </ul>	ese
Media streaming	
When media streaming is on, people and devices on the network can access pictures, music	, and
Choose media ctreaming options	
File sharing connections	
Windows uses 128-bit encryption to help protect file sharing connections. Some devices do support 128-bit encryption and must use 40- or 56-bit encryption.	n't
Use 128-bit encryption to help protect file sharing connections (recommended)	
O Enable file sharing for devices that use 40- or 56-bit encryption	
Password protected sharing	
When password protected sharing is on, only people who have a user account and passworr this computer can access shared files, printers attached to this computer, and the Public folc give other people access, you must turn off password protected sharing.	d on Jers. To
Turn off password protected sharing	
Save changes	Cancel

g. Click on '**Save changes**' and restart your device for the changes to take effect 3. Now, your devices are discoverable on the same network. Put those files you intend to share in the Public folders of the server (ADMINISTRATION). This is found in Network -> ADMINISTRATION -> Users -> Public -> Public Documents

Network > Administration > Users > Public > Public Documents							
	Name	Date modified	Туре	Size			
*	FIS	8/1/2018 1:34 AM	File folder				
*	📜 FIU	8/1/2018 1:34 AM	File folder				
*	📕 FSD	8/1/2018 1:34 AM	File folder				
*							

#### 4. Password Protect Files

For example, in excel. Click on File -> Info -> Protect Workbook -> Encrypt with Password.



In Word, click on File -> Info -> Protect Document-> Encrypt with Password.



5. You will be asked to enter and confirm a password. **Remember this password because once lost, Microsoft cannot recover this password for you.** You could keep an updated unencrypted version of this file, just in case.

6. Finally, share your password to only those you wish to have access to your file.

Your files can now be accessed by those in your network.

7. To access files on the network, go to Network -> ADMINISTRATION -> Users -> Public -> Public Documents



If you cannot find ADMINISTRATION, then type <u>file://ADMINISTRATION</u> in the address bar. Input the password to that file to access it.

Warning: As mentioned above, it is important to remember the password you encrypted your files with.

# **Appendix D: VPN Connections**

### VPN Connections with a Netgear (Server) Router

### Important Notes

- 1. A VPN (virtual private network) connection is a secure connection to another network through the internet.
- 2. All devices have one unique IP address which is private. The only exception to that is the router. The router has two IP addresses. One address is public. The other is private.
- 3. The public IP address interfaces with the WAN while the private IP address interfaces with the other devices in the LAN.
- 4. While carrying out VPN connections between 2 devices on different networks, connections are made between the routers of the two networks through their public IP addresses.
- 5. The public IP address is distributed by the Internet Service Provider (ISP), which in the case is NTA (National Telecommunications Authority). Every time, the router reboots a new public IP address is assigned to the router.
- 6. For VPN connections to be successful, the router will need to know the public IP of the other router to know which network it has to connect to. This cannot happen if ISPs keep assigning IP addresses. Therefore, it is important that the public IP address is kept static or Dynamic DNS is enabled so that each client machine that wants to connect to the network can easily do so without having to worry which IP address to connect to.

# Step 1: Configure the router receiving the connection to have either a static IP or enable Dynamic DNS

Step 2: On a Netgear router, go to Advanced VPN settings and follow the steps. You need administrator privileges.

# **Appendix E: Access with a VPN**

### Access with a VPN

The following guide demonstrates access with a VPN by client machines.

1. Determine **system type** of laptop that will be used to access the network through a VPN.



PC	
PC name	Examiner-1
Organization	WORKGROUP
Edition	Windows 10 Home
Product ID	00326-30000-00001-AA724
Processor	Intel(R) Core(TM) i5-6200U CPU @ 2.30GHz 2.40 GHz
Installed RAM	8.00 GB (7.77 GB usable)
System type	64-bit operating system, x64-based processor
Pen and touch	No pen or touch input is available for this display

 Go to Network -> ADMINISTRATION -> Users -> Public -> Public Documents -> General and install the VPN client. (If system type is 64-bit, then install VPN - 64bit. If system type is 32-bit, then install VPN - 32bit)



3. Copy the configuration files to another location and unzip them. Configuration files are found in Network -> ADMINISTRATION -> Users -> Public -> Public Documents -> General. (That is, windows.zip for windows computers and nonwindows.zip for

$\uparrow$	> Network > ADMINISTRATION > Users > Public > Public Documents > General > Configuration Files					
folder	^	Name	Date modified	Туре	Size	
c Docu	men	nonwindows	8/7/2018 10:33 PM	Compressed (zipp	4 KB	
ite		🔋 windows	8/7/2018 10:32 PM	Compressed (zipp	4 KB	
ive						
;						

nonwindononwindows computers.)

4. Copy the contents of the unzipped folder and paste them into the folder that the VPN client is installed. Usually found at C:\Program files\OpenVPN\config\

Clipboord	Organize	New	Open	Select
🕐 🕇 📜 > This	PC > Local Disk (C:) > Program Files > Op	enVPN → config		
ic Documen ^	Name	Date modified	Туре	Size
site	📮 ca	7/24/2018 4:29 PM	Security Certificate	2 KB
rive	🗊 client	7/24/2018 4:29 PM	Security Certificate	4 KB
	Client.key	7/24/2018 4:29 PM	KEY File	1 KB
C	🕥 client1	7/24/2018 4:29 PM	OpenVPN Config F	1 KB
top	README	7/24/2018 4:25 PM	Text Document	1 KB
uments				

5. In **Windows**, you need to modify the VPN interface name to "NETGEAR-VPN". The VPN interface usually has a Device Name as "TAP-Windows Adapter".



6. Run client as Administrator while on a different network (internet connection)



You will now be able to access files on the banking commission network.

7. Disconnect VPN by clicking Disconnect.



# **Appendix F: SOP for Backup of Network Files**

### Standard Operating Procedure for File Backup

All files are currently hosted on ADMINISTRATION, therefore if that computer crashes, then all files will be lost. Therefore, it is important to backup files on the network.

### When Does Backup Take Place?

All backups for departments should be carried out on Friday, at the end of the work week.

In the event where Friday is a public holiday or otherwise not a convenient day to carry out backups, the preceding day should be designated as the backup day. For example, if the backups cannot be carried out on a Friday, then the backups should be carried out the day before, a Thursday.

### Who Does Backup of Files?

Backups should be carried out by managers of the various departments. Each manager should back up his/her departmental folder on the network. It is important to ensure that the external storage device can only be accessed by the manager of the various divisions.

### Steps in Backing Up Files

- 1. At the end of the working day, ensure that all computers have closed access to files.
- 2. Using an external storage device, backup files by copying and pasting the respective departmental folders to the storage device.
- 3. Replace all files with updated versions.
- 4. Keep the external storage device safely.

# Appendix G: Banking Commission Account and Renewal Document

- Sign in to <u>www.wordpress.com</u> with login Username: <u>osa@andrew.cmu.edu</u> Password: SultanRendy4bc
- 2. Click "My Site" on the top left corner, once it takes you to the next page then click "Banking Commission" on the top left corner to see the site.

#### You are now in edit mode

3. At the menu at the top, click the tab to go to the page you want to edit. If you would like to edit the text, go to the bottom of the text and click edit. The page that opens up allows you to change the text. Once finished make sure to click "Update" on the top left side.

#### To add pdf:

- 1. Click "Add Media" button
- 2. Using the file selection thing, select your PDF and click the upload button.
- 3. After it uploads, you'll have this new section that shows the Link URL. You can change the name of the URL to appear as you would like on the site.
- 4. Click the blue "Update" button on the left hand side.

### Checklist of changes to make

-Change an image/Add an image
-Change text
-Make a draft post (A post is an update or announcement you would like to make to the public)
-Add photos to gallery
-Add a tab

#### Wordpress Account: Login to Dashboard for the website

Username: <u>administration@rmibankingcomm.org</u> Password: BCAdmin2016.

### Godaddy account:

Username: rmifiu Password: Rmifiu2016 Pin: 2310

### Zoho Emails:

Username: administration@rmifiu.org Password: MajuroBankingAdmin2016.

Incoming Mail Server: pop.zoho.com

Outgoing Mail Server: smtp.zoho.com Incoming Server (pop3): 995 Outgoing Server (SMTP): 465 **MojoMarketPlace** Username: <u>administration@rmibankingcomm.org</u> Password: BCAdmin2016.

Bluehost Account (Hosting is renewed for 36 months and the next renewal date is on July 05, 2019 and the domain renewal date is on July 10, 2019) Username: rmibankingcomm.org Password: Majurobanking2016.

Emails: administration@rmibankingcomm.org Password: MajuroBankingAdmin2016.

rjohnny@rmibankingcomm.org

Temporary Password (please change): Rendy4banking.

**Comodo rmifiu.org Certificate** Revocation password: MajuroBankingAdmin2016 Expiration Date: 7/25/2019

skorean@rmibankingcomm.org Temporary Password (please change): Sultan4banking.

#### neumi@rmibankingcomm.org

Temporary Password (please change): Matt4banking.

<u>sleon@rmifiu.org</u> Password (already change)

sanien@rmifiu.org

Setting up a Zoho email in Outlook (for **RMIFIU.org emails**) https://www.zoho.com/mail/help/outlook-pop-access.html

# **Appendix H: Due Diligence Check Table**

The DueDiligenceCheck Table in the FIU Database consists of the following fields: Date Date Received Reference Number (Primary Key) Requesting Agency Entity Individual Passport Number Issuing Country Date of Birth Notes

# Appendix I: Banking Commission Account and Renewal Document Renew and Install Certificate on Outlook

Marshall Islands FIU



1. Click the link to install Comodo Email Certificate



2. Use Mozilla Firefox (you may have to change your default browser in settings to Firefox) and it will automatically install the certificate for you.



3. Go to options in Firefox.

C Secure Email Certificates - App X	☆ Options × +		- 0 X
$\leftrightarrow$ > C'	V Firefox about:preferences	☆	II\ ⊡ 👳 ≡
			^
🔆 General	General		
Home	Startup		
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4. Click on privacy and security.

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5. Click on view certificates.

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C C	E=sanien@rmifiu.org	Software Security Device	00:87:F2:A3:E3:7B:1B:FF:67:6B:A	Wednesday, July 3, 2019		
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6. Select the certificate you want to install then click backup.

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7. Type the file name (ex. Certificate\_2018) and select where you will save it.

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<ul> <li>V</li> <li>V</li> <li>View</li> <li>Backup</li> <li>Certificates</li> </ul>	Backup All Import Delete Security Devices	OK	241 PM
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8. Create a backup password for the certificate to protect the backup.



9. Now go into outlook and select options.



10. Select trust center then trust center settings.



11. Select email security.



12. Select Import/Export.



13. Find and select the certificate you saved on your computer.



14. Select settings.



15. Select new.



16. Choose the signing certificate and the encryption certificate for the new certificate. The signing and encryption certificate must be from the same original certificate.



17. Select more choices under the certificate and select the new certificate indicated by the date.



18. Give the certificate a name, select all the checked boxes, and press OK.

### **Appendix J: How to Create a Table in Microsoft Access 2016**

# How to Create a Table in Microsoft Access 2016

Republic of Marshall Islands FIU



1. Click on the create tab, then the table design button.

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2. In the table design view click on the first field name and enter the first column heading.

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3. Select the data type for this field. Most fields will be short text, but some will be currency, date/time, and number.

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4. You must now indicate the primary key. Click the grey box next to the field name you want to be the primary key, then click the primary key button.

The primary key is a unique identifier for each entered report. In the above example the primary key is the CTR ID.
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5. You can also make a table with multiple primary keys. To do this, click the grey box next to the first primary key, then hold control and click the grey box next to the second primary key.

This is called a composite primary key. This means **both** primary keys cannot be the same for multiple reports. In the above example both the CTR ID and SSNorEIN are primary keys.

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6. Save your table, then hit datasheet view to see the finished table.

## Appendix K: How to create a Form in Microsoft Access 2016

# How to create a Form in Microsoft Access 2016

Republic of the Marshall Islands FIU



1. Click on the create tab, then the form wizard button.



2. The form wizard box will pop-up. Select the table you want to make the form from (in this case it is the CTR table).



3. From the table select the fields you want to have in the form. Use the single arrow on top (>) to select one field. Use the double arrow underneath (>>) to select all the fields in the table. Use < and << to deselect fields either individually or all.



4. Choose what format you want to have the form in. Orange boxes represent labels and Yellow boxes represent data from the corresponding fields. In this instance we want the columnar format.



5. Name the form and click finish.

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6. Here is the result.

# Appendix L: How to create a Report in Microsoft Access 2016

# How to create a Report in Microsoft Access 2016

Republic of Marshall Islands FIU



1. Click the create tab, then the report wizard.



2. The report wizard will pop-up. Select the table you will use for the report.



3. From the table select the fields you want to have in the report. Use the single arrow on top (>) to select one field. Use the double arrow underneath (>>) to select all the fields in the table. Use < and << to deselect fields either individually or all.



4. You can group the data by fields in this step. On the left side are fields you can group by. The > button will group the form on the left side by that field.



5. In this example we are grouping the data by date of transaction by each month. Click the field you want to group by and then click the > button. The data you are grouping by is indicated in blue on the right side.



6. You can change how you group dates by (month, year, quarter, ect.) by clicking the grouping options



7. In grouping options you can pick how you group your date.



8. You can also sort the data. Indicate which field you want to sort with the drop down menu. Then choose either ascending or descending to the right by clicking the button.



9. Select the columnar layout.



10. Name your report and select modify the report's design.

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CTRs By Financial Instit	1 cashDirection	
CTRs By Month	cashAmount	
CTRs By Person	- accountNumbers accountNumbers	
CTRs By Year	typeOfFinancialInstitution	
PersonInTransaction :	2 tullNameOfFinancialInstit fullNameOfFinancialInstitution	
autoFillPIT	nameOfBranchOfficeAge nameOfBranchOfficeAgency	
SearchQuery		
CTRs	Page Footer	
PersonInTransaction		Pages]
PersonInTransaction S	FReport Footer	
SearchQuery subform		
CTRs By Month		
CTRs By Person		
CTRs By Year	1	
SARs A		
SARS : Table		
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11. You are now in design view for your report. Select the page break button.

<b>□ *5 *</b> ¢* * ▼	Report Design Tools	FIU - Banking Commision	Nik R — 🗇 🗙
File Home Create External Data Database Tools H	elp Design Arrange Format Page Setup	Search	
View Themes Fonts → Grouping & Totals			Add Existing Property Fields Sheet Order Settings Convert Report's Macros to Visual Basic Tools
All Tables 💿 « 🖃 CDR by Person 📓 CTRs			× Proporty Shoot
autofillCTRs	2	. 5 6 7	selection type: Section
CTRsYears			24
			Detail
SearchQuery			Format Data Event Other All
CTRs Fage Header			
CTRs1			
SearchQuery subform	CTRID		
CTR Printable	lateOfTransacti		
CTRs	and Direction		
CTRs By Financial Instit			
CTRS By Month	CashAmount		
CTRs By Verson - accountNumbers	accountNumbers		
PersonInTransaction &	ypeOfFinancialInstitution		
PersonInTransaction :	ullNameOfFinancialInstitution		
autoFillPIT autoFillPIT	nameOfBranchOfficeAgency		
📑 SearchQuery			
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PersonInTransaction = Now()		="Page " & [Page] & " of " & [Pages]	
PersonInTransaction S			
SearchQuery subform			
CTRs By Month			
CTRs By Person			
CTRs By Year			
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12. Place the page break under the last label but before the page footer.



13. Right click on the report tab to switch to report view to see how the report looks.



14. Right click to switch to print preview to make sure only one report prints per page.



### **Appendix M: New Table Importation Guide**

### **New Table Importation Guide**

RMI Banking Commission Daisy Nkweteyim Nikolas Rebovich, Student Consultants Page **94** of **125** August 31, 2018

#### Marshall Islands FIU

∎ 5·♂·∓	FIU - Ba	anking Commision		Nik R - 0 ×
File Home Create External Data Database Tools	Help $ ho$ Tell me what you want to do			
New Data Source - Saved Imports Saved Excel Exports - Text XML File File	PDF Email Word Merge or XPS Work Synchronize Relink Lists	anges - Data		
From File	CTRs PersonInTransaction			~ X
From Database	P.O. Box D P.O. Box D Majuro, Marshall Islands 96960	FIU_CTR_ID 1		
From <u>O</u> nline Services From <u>S</u> QL Server	Fax: (692) 625-6310/09 Fax: (692) 625-6309			
From Other Sources				
PersonInTransaction * dB dBASE File	Involved in Transaction			
CTR Printable CTRID	1.05-16-000			
DueDiligenceCheck  relationshipToTran	saction Person conducting transaction for another			
DueDiligenceCheck	)fEntity MARSHALL			
autofillCTRs				
autoFillPIT	ИНОГ			
autoFillSars1 middleName				
autofillSars2 gender	Male			
CTRsYears				
plotQuery OccupationOrType	OTBUSINESS FISHERMAN			
Query test 1 SSNorEIN	000111222			
Querytest1 address	PO BOX 0			
Querytest1 Query				
SearchQuery addressCity	MAJURO			
test1 addressState				
TRPlots zipCode	96960			
CTRs				
addressCountry	MARSHALL ISLANDS			<b>v</b>
Report View				Num Lock 🗊 🗔 🖽 🔛
Type here to search	) H: ի 🥽 🧔 🜌 👩 🥪	\$ 🗸 🖬 📐	🛓 🍯 📧	ダ <sup>A</sup> へ ●

1. Go to External Data -> New Data Source -> From Database -> Access

<b>□</b> 5·∂· ₹		FIU - Banking Commision		×
File Home Create Exter	rnal Data Database Tools Help	${\cal P}$ Tell me what you want to do		
New Data Source -	Saved Excel Text XML PDF File File or XPS	Image: Second		
	MainForm SARs CT	iet External Data - Access Database	? ×	×
All ladies		Select the source and destination of the data		
SAR Printable		Specify the source of the definition of the objects.		
• CTRs		Eile name: \\ADMINISTRATION\Users\Public\Documents\FIU\FIU Practice Database\	Browse	
CTR Printable				
PersonInTransaction	Part I: Person Inv	Specify how and where you want to store the data in the current database.		
PersonInTransaction	CTRID	Import tables queries forms reports macros and modules into the current database		
CTR Printable	СТКЮ	If the specified object does not exist. Access will create it. If the specified object already exists. Access will appe	and a number to the name of	
DueDiligenceCheck A	relationshipToTransaction	the imported object. Changes made to source objects (including data in tables) will not be reflected in the curre	ent database.	
Unrelated Objects	lastNameOrNameOfEnti	Link to the data source by creating a linked table. A second will exist a table that will exist in a link to the source data. Changes and to the data is a second will be a second will		
autofillCTRs	Conthinese	vice versa. NOTE: If the source database requires a password, the unencrypted password will be stored with the	he linked table.	
autoFillPIT	TirstName			
autoFillSars1	middleName			
autofillSars2	gender			
CTRsYears				
plotQuery	occupationOrTypeOfBus			
Query test 1	SSNorEIN			
Querytest1	address			
Querytest1 Query		0	DK Cancel	
SearchQuery	addressCity	-		
test1	addressState			
CTRplots	zinCode	96960		
CTRs CTRs		55500		
🖼 finalPlot	addressCountry	MARSHALL ISLANDS		-
MainForm      MainForm			Num Lock 🖅 🗖 🧮	Þ.
				÷
	h 🕛	i 🔟 🗖 🎯 🐼 🕢 🐔 🔟 🏹 🐬	x <sup>8</sup> ∧ ♦ 🖬 ⊄ <sup>3</sup> ) ENG <sup>3,33</sup> AW	

2. Select the backend database you made the table in. Select "Link to the data source by creating a table"

	FIU - Banking Commision	Nikr - O/X
Link Tables ?	ell me what you want to do	
Tables Tables TRS DueDiligenceCheck PersonInTransaction Select All Select All	Cache List Data Online Web Linked Lists Web Linked Lists	×
Deselect A	P.O. Box D Majuro, Marshall Islands 96960 Phone: (692) 625-6310/09 Fax: (692) 625-6309	
	in Transaction          1.05-16-000         Person conducting transaction for another         MARSHALL	
autoFillPIT	JOHN	
autoFillSars1 middleName		
autofillSars2 gender	Male	
CTRsYears	FISHERMAN	
plotQuery		
Query test 1 SSNorEIN	000111222	
address	PO BOX 0	
SearchQuery addressCity	MAJURO	
test1		
CTRplots		
I CTRs zipCode	96960	
finalPlot addressCountry	MARSHALL ISLANDS	<b>v</b>
MainForm		
Report View		Num Lock 🐮 🗖 🗄
Type here to search	🔄 🗵 📭 🎽 🔅 🌚 🐨 🚊 💶	k 😔 k≣ x <sup>R</sup> ∧ ⊙ 🚍 ⊄ <sup>3</sup> ) ENG 8/8/2018 🖓

3. Select the table you want to import. **ONLY SELECT THE NEW TABLE**.

# **Appendix N: How to Link Back End Tables to Front End Database**

## How to Link Back End Tables to Front End Database

Marshall Islands FIU



1. Go to External Data and click on Linked Table Manager

<b>□</b> 5 ° ♂ ° Ŧ		FIU - Banking Commision		
File Home Create External Data Da	atabase Tools Help 🔎 Tell me what you v	vant to do		
New Data Source - Import & Link	I Text XIML PDF Email File File or XPS ₩ More *	Work Synchronize Relink Lists Web Linked Lists		^
All Tables 🕞 « 🔳 MainForm	"			×
Air rables     Image: Circle and Circle	Linked Tat Select the linke	ble Manager d tables to be updated: (\/FIU-PC\Users\Public\FIU\BCDB_be.accdb\CTRs) InInTransaction (\/FIU-PC\Users\Public\FIU\BCDB_be.accdb\SARs) (\/FIU-PC\Users\Public\FIU\BCDB_be.accdb\SARs)	NTransaction) Cancel Select All Deselect All Export To Excel Marshall Email Ac	<b>Shall Islands</b> <b>mission</b> Islands ~ 96960 Idress: administration@bankingcomm.o
CTRs	ID:			
PersoninTransaction Subform	Last Name / Name of Entity:		Forms	Generate Reports Plot
CIR Printable	Start Date (MM/DD/YYYY):			CTRs Bu Barren SARs Bu Barren
SARs A	End Date (MM/DD/YYYY):		SARs CTRs	CTRS By Person SARS By Person CTR
SARs	Account Number			CTRs By Month SARs By Month
🖼 SARs	Account Number.			
SAR Printable	Financial Entity:	~		CIKS BY Year SAKS By Year
MSysCompactError				Crime Classification (SAR)
MSysCompactError : Table		Search		
Unrelated Objects A		Scarch		
autoFillSars1	Matching CTRs			
autofillSars2				
Query test 1 Record: H	1 of 1 🕨 🕨 🛤 🕷 No Filter Search			
Linked Table Manager				4-21 DM
Type here to search		🧿 🗟 📀 😴 💆	wi 🕗 🔔 💽	x <sup>e</sup> 🔨 🌑 🖿 🕬 ENG 7/30/2018 🖓

### 2. Select the tables you want to link to the Front End database then check the box next to Always prompt for new location.



3. Select the location of the Back End file you want to link with the Front End Database.



#### 4. If the importation is successful you will get this message.

## **Appendix O: Import Tables, Forms, and Reports into Database**

# Import Tables, Forms, and Reports into Database Marshall Islands FIU



1. Select External Data -> New Data Source -> From Database -> Access



2. Select the file you want to import from. Select the first option to import.



3. Select the objects you want to import.

E 5°♂·▼	FIU - Banking Commision	
File Home Create External Data Database Tools Help 🔎 Tell me what you want		
Saved Imports Chicked Table Manager Source - Import & Link	Vork Synchronize Relink Lists Web Linked List	^
All Tables 💿 « 🗐 MainForm		×
CTRs A A	Password Required ? X Enter database password:	<u>^</u>
PersonInTransaction		Marchall Islands
		5 Maishan Islanus
PersoplinTransaction Subform		
CTR Printable Report	Banking	Commission
SARs A		uro ~ Marshall Islands ~ 96960
* SARs	P.O. BOX 1408 " Maju Dhana Na. (602) 625 6210 % Eav Na. (602) 625 6	aro Warshall Islands 90900
SARs	Phone No. (692) 625-6310 ** Fax No. (692) 625-6	309 ** Email Address: administration@bankingcomm.o
Unrelated Objects		
autofillCTRs ID:		
autoFillPIT Last Name / Name of Entity:	Го тто с	Conorato Donorto Diot
autoFillSars1	Forms	Generate Reports Plot
autofillSars2 Start Date (MM/DD/YYYY):		CTRs By Person SARs By Person CTR:
End Date (MM/DD/YYYY):	SARs	CTRs
Account Number:		CTRs By Month SARs By Month
Query test 1		CTRs By Year SARs By Year
	×	
		Crime Classification (SAR)
ige searchquery	Search	
ment Creptots Matching CTRs		
Record: H	Nar - firstNama - middleName - render - accupationO - SCNer	IN - address - address(ity - address(tata - address)
Form View		
Type here to search	) 🗟 🥝 🕜 蒜 🧸 🙍 🔼 🛓 🔌	AB R <sup>R</sup> ^ • • • • KI 10:11 AM 7/30/2018

4. It will prompt you for a password if the database you are importing from is password protected.

# **Appendix P: Common Importation Errors**

# Common Importation Errors Marshall Islands FIU



1. This error indicates a field name (column name) in the database does not match a field name in the file you are importing. Compare the field names in the two documents and correct any column mismatch.

-Correct the field name in the importing file (excel/csv) and import the data. Alert the bank to change the field name so that data can be imported directly next time.



- 2. Possible reasons for this error to appear:
- a. Multiple records have the same primary key. Check that each record has a unique primary key. In CTRs it is CTRID, in SARs it is SARID, in Person in Transaction it is CTRID and SSN/EIN.

-Alert the bank to make the primary key unique. You should not import the record until it has a unique ID.

b. Fields are not formatted correctly. Each field is formatted for certain input (date, number, text ect.) Check that fields have the correct formatting in their cells.

-Correct the error in the importing file, then import the data. If it happens more than once alert the bank to syntax errors.

c. The records have already been entered into the database. Check that you have not entered this data into the database yet. If you have you will have multiple records with the same primary key (same as error in a.).
# **Appendix Q: Import a CSV file into Access**

Import a CSV file into Access Marshall Islands FIU

	Practice FIU Database : Database - C:\Users\nareb\Desktop\RMI FIU\Practice FIU Database.accdb (Access 2007 - 2016 file format) - Access	×
File Home Create External Data Database Too	ools Help $ ho$ Tell me what you want to do	
New Date Source Source State S	Image: Second	Â
From File	Export	
From <u>D</u> atabase , <u>HTML</u> Document		
From <u>O</u> nline Services  XML File		
From Other Sources		
□ SARs : Table 2018   2018   2018 : Table		
Ready		
	😃 🗐 🎦 🧿 🤮 🧭 🥩 💐 💐 💆 🛃 🛃 💶 🕺 📌 \land 🔿 😁 🕬 ENG 3305 PM 7/4/2018	4

1. In the external data tab select New Source Data -> From File -> Text File.



#### 2. Select Delimited.



#### 3. Select comma delimiter, check First Row Contains Fields, and Select " for text qualifier.



4. Select the CSV file you want to import from your computer.



5. Select which table you are importing the data to.



#### 6. Select finish.

# **Appendix R: Import an Excel file into Access**

Import an Excel file into Access

**Marshall Islands FIU** 



1. From the external data tab select New Data Source -> From File -> Excel.



2. Select the Excel file from your computer.



3. Select the table you will import the data to.



4. Access will automatically check First Row Contains Column Headings. Click next.



#### 5. Click finish.

# **Appendix S: CTR Printable Report**



#### **Banking Commission**

P.O. Box D Majuro, Marshall Islands 96960 Phone: (692) 625-6310/09 Fax: (692) 625-6309 Currency Transaction Report FIU\_CTR\_ID

Part I: Person Involved in Transaction	
CTRID	
relationshipToTransaction	
lastNameOrNameOfEntity	
firstName	
middleName	
gender	
occupationOrTypeOfBusiness	
SSNorEIN	
address	
addressCity	
addressState	
zipCode	
addressCountry	
dateOfBirth	
contactPhoneNumber	
emailAddress	
idType	
idNumber	
idCountry	

Wednesday, August 29, 2018

Page 1 of 2



#### **Banking Commission**

P.O. Box D Majuro, Marshall Islands 96960 Phone: (692) 625-6310/09 Fax: (692) 625-6309

# Currency Transaction Report FIU\_CTR\_ID

## Part II: Amount and Type of Transaction

dateOfTransaction	
cashDirection	
cashAmount	
accountNumbers	

## Part III: Financial Institution Where Transaction Takes Place

typeOfFinancialInstitution	
fullNameOfFinancialInstitution	
nameOfBranchOfficeAgency	

Wednesday, August 29, 2018

Page 2 of 2

# **Appendix T: SAR Printable Report**



#### **Banking Commission**

P.O. Box D Majuro, Marshall Islands 96960 Phone: (692) 625-6310/09 Fax: (692) 625-6309 Suspicious Activity Report FIU ID NUM:

Part	I: R	eporting	Financial	Institution	Information

SAR ID	
Type of Financial Institution	
Financial Institution	
EIN	
Name of Branch Office Agency	
Branch Address	
City	
Zip Code	
Account Number	
Closed Account?	

Wednesday, August 29, 2018

Page 1 of 3



## **Banking Commission**

P.O. Box D Majuro, Marshall Islands 96960 Phone: (692) 625-6310/09 Fax: (692) 625-6309

## Suspicious Activity Report FIU ID NUM:

Part II: Suspect Information	
Last Name or Name of Entity	
First Name	
Middle Name	
Gender	
Address	
City	
State	
Zip Code	
Country	
SSN, PN, DN, EIN, or TIN	
Residence Phone Number	
Work Phone Number	
Occupation or Type of Business	
Date of Birth	
Admission Confession	
ІД Туре	
ID Number	
ID Country	
Relationship to Financial Institution	
Type of Insider Relationship	
Date of Suspension, Termination, or Resignatio	

Wednesday, August 29, 2018

Page 2 of 3



## **Banking Commission**

P.O. Box D Majuro, Marshall Islands 96960 Phone: (692) 625-6310/09 Fax: (692) 625-6309 Suspicious Activity Report FIU ID NUM:

Start Date of Suspicious Activity	
End Date of Suspicious Activity	
Cash Amount	
Summary Characterization	
Affect Financial Institution?	
Last Name or Entity Name for Assistanc	
First Name for Assistance	
Title Occupation	
Phone Number	
Date Prepared	

# Appendix U: Standard Operating Procedure to Modify FIU Database

# **Standard Operating Procedure to Modify FIU Database**

This SOP defines the procedure to follow when modifying tables, forms, or reports in the FIU Database

If you are modifying tables or forms:

- 1. Create a draft form or report in Practice FIU Database (FIU\_Practice\_Database\_2018).
- 2. Have the draft document approved by the FIU Manager.
- 3. Have the draft document approved by the Commissioner of Banking.
- 4. Make sure the primary database (FIU\_Database\_2018) is only open on the computer where the database will be modified.
- 5. Import form or report from practice database into primary database by using the guide "How to Import into Database".

If you are modifying a table:

- 1. Create a draft table in Practice FIU Database backend (BCPracticeDatabase\_2018\_be).
- 2. Link the table in the FIU Practice Database backend to the FIU Practice Database frontend by using the guide "How to link Backend Tables to Frontend Database".
- 3. Have the draft table approved by the FIU Manager.
- 4. Have the draft table approved by the Commissioner of Banking.
- 5. Make sure the primary database (FIU\_Database\_2018) is only open on the computer where the database will be modified.
- 6. Make the table in the primary backend database (FIU\_Database\_2018\_be) then link it to the primary frontend database (FIU\_Database\_2018).