

## SOFTWARE REQUIREMENT SPECIFICATION

**FOR** 

**CBS Multiple Enhancement** 

SSO: LRRD-052

NBR - SSO - Tax Submission Report

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<sup>\*</sup>Users should not delete the content

# **Document Revision History**

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#### 1 INTRODUCTION

#### 1.1 OVERVIEW

Standard Chartered Bank and data edge limited has mutually agreed to implement a system named CBS Multiple Enhancement Automation. Using this system user can generate monthly reports for Bangladesh Bank, which are now manually generated.

#### 1.2 PURPOSE

The purpose of the system is to generate reports for Bangladesh Bank with the data uploaded by their stakeholders.

#### 1.3 REFERENCES

Sr. No.	Reference Name
1	LRRD-052 : NBR - SSO - Tax Submission Report

#### 1.4 DEFINITIONS

As per Bangladesh Bank's guidelines.

#### 2 SCOPE

#### 2.1 SYSTEM OVERVIEW

Currently the "LRRD-052: NBR - SSO - Tax Submission Report" report generation process is manual.

#### 2.2 PROPOSED SYSTEM OVERVIEW

For this report, input data will be provided by **uploading input excel file**. There will be a UX for uploading file from authorized users' workstations. There will also be provisions for intermittent data saving, data correction and final report generation.

### 2.3 DOCUMENT OVERVIEW

The document covers process flow of the existing system and the proposed system, user interface, data flow diagram, risk and Securities Services reporting system. This document can also help to prepare test case design.

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### 2.4 REFERENCED DOCUMENTS

S/N	Document Title	Version	Sample Document
1	LRRD052_ NBR - SSO - Tax Submission Report	0.1	N/A
2	BRD_SSO-LRRD-052	N/A	N/A
3	SSO-LRRD-052_Input	N/A	SSO-LRRD-052_Inp utxlsx
4	SSO-LRRD-052_Output	N/A	SSO-LRRD-052_Out putxlsx

## **3 REQUIREMENTS**

### 3.1 FUNCTIONAL REQUIREMENTS

### 3.1.1 DATA INPUT

Maker will upload source input excel file in 'Master Data' page and FRS System will store the uploaded input data. Maker will fetch source input data and will give manual input in some fields then send them to the Checker for approval. Checker can approve data and generate report or reject data which will be sent back to the Maker for data correction.

#### 3.1.2 DATA OUTPUT

Single output file will be generated for this report

The sample output format is provided in the file:

• SSO-LRRD-052\_Output

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## 3.1.3 SOURCE DEFINITION-DATA MAPPING

## ${\bf 3.1.3.1} \quad NBR - SSO - Tax \ Submission \ Report$

Report Field Name	Description	Source Field Name	Source Field Name Data Source	
Report Field Name	Description	(From Input_047)	Name	if Required
S/N	Serial No.	Auto System Generated	N/A	N/A
Name	Name Name Security Account SSO-LRRD- Name 052_Input		N/A	
Address	Address	Address	SSO-LRRD- 052_Input	N/A
TIN	TIN	"Not Applicable" (Static)	Static	N/A
Date of tax deduction/collection	Date of tax deduction/collection	Manual Entry	Manual Entry	N/A
Source of deduction/collection	Source of deduction/collection	"Sales proceeds of Securities (Capital Gain)" (Static)	Static	N/A
Section	Section	"56" (Static)	Static	N/A
Amount paid/credited	mount paid/credited Amount paid/credited Amount SSO-LRRD-052_Input			N/A
Amount of tax deducted/collected	Amount of tax deducted/collected	Amount	SSO-LRRD- 052_Input	N/A
Challan No.	Challan No.	Manual Entry	Manual Entry	N/A
Challan Date	Challan Date	Manual Entry	ntry Manual Entry	
Bank Name	Bank Name	Bank Name  "Sonali Bank"  Editable Field/Static		N/A
Amount	Amount	Amount SSO-LRRD- 052_Input		N/A
Remarks (if any)	Remarks	Manual Entry	Manual Entry	N/A

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### 3.1.4 APPROVAL PROCESS OF DATA

The workflow of upload input file, manual entry, correction and final approval will be passed through "Maker – Checker" mechanism such that the Checker will verify them. Nevertheless, the Checker can edit no value. The checker will be able to either approve or reject the submitted data. If approver rejects any submitted data, Maker has to rectify the rejected fields again.

### 3.1.5 REPORT GENERATION

Use Case	Report Generation	
Actors	System Admin, System User	
Descriptions	The system will allow user to prepare report for Bangladesh Bank using processed customer information from database.	
Preconditions	All data submission should be approved by approver user.	
Post-conditions	Will show report generation completed message.	
Flow	<ul> <li>User will upload input excel file and also manually enter some value.</li> <li>User will click on Submit button.</li> <li>User will conduct actions for generating report.</li> </ul>	
Output formats	> Excel	

## 3.1.6 THE DATA FLOW DIAGRAM:

Document Name:

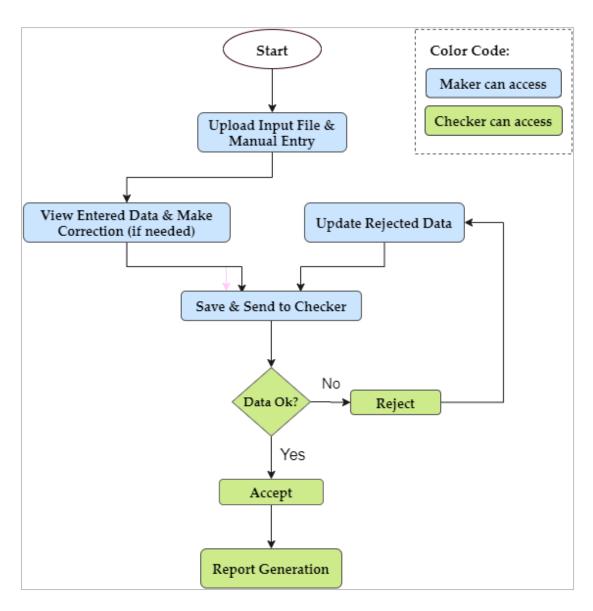


Figure 1: Data Flow Diagram

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### 3.2 EXTERNAL INTERFACE REQUIREMENTS

N/A

### 3.3 DATA REQUIREMENTS

All input data will be provided through manual entry and from uploaded input excel file.

## 3.4 LOOK AND FEEL REQUIREMENTS

Prototype of interface design for the new application is given below:

#### 3.4.1 DATA UPLOAD PAGE (MAKER):

Maker will upload input file SSO-LRRD-052\_Input.xlsx through this page.



Figure 2: Data Upload Page

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### 3.4.2 DATA CORRECTION PAGE (MAKER):

If require, Maker can edit the previously entered data from this page. After reviewing and editing maker will send data to **Data Approval** page for authorization.

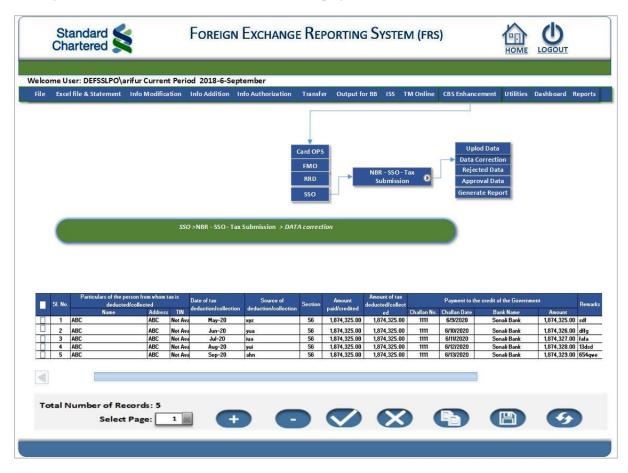


Figure 5: Data Correction Page

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### 3.4.3 REJECTED DATA PAGE (MAKER):

From this page user will rectify data which are rejected from checker end from **Data Approval** page. After reviewing and editing maker will again send data to **Data Approval** page for authorization.

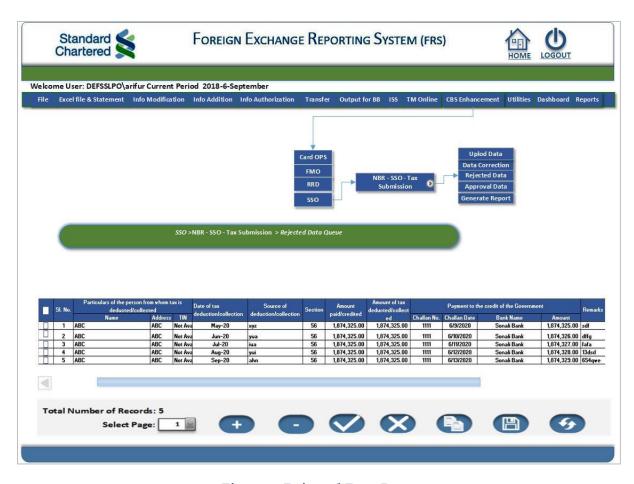


Figure 6: Rejected Data Page

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### 3.4.4 APPROVED DATA PAGE (CHECKER):

In this page, the Checker will view the submitted data by the Maker. The checker will be able to either approve or reject the submitted data. However, no value can be edited. If approver rejects any submitted data, Maker has to rectify the rejected fields again.



Figure 7: Approved Data Page



### 3.4.5 REPORT GENERATION PAGE (CHECKER):

Single report to be generated as excel format from this module:



Figure 8: Report Generation Page

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#### 3.5 SECURITY REQUIREMENTS

#### Implement Role in User Management Module:

SSO module will use FRS authentication and authorization system. User's role will be set according to user's operation like files upload, approval and viewing different types of reports. An Administrator has all privileges to maintain user management module, role management and other security issues.

### **Application Architecture:**

The Module Called "SSO" will be added into the existing FRS system which is already running at SCB Bangladesh. So, the application architecture bases on the existing FRS system.

### 3.6 ENVIRONMENT REQUIREMENTS

#### 3.6.1 HARDWARE REQUIREMENTS

As a part of FRS system **SSO** will use same hardware and network facilities as FRS system currently using.

#### 3.6.2 SOFTWARE REQUIREMENTS

**SSO** module is developed in ASP.Net technology using MS Visual Studio IDE which is same as current FRS system. So the software environment will be same as FRS for **SSO** module.

### 3.7 PERFORMANCE REQUIREMENTS

#### 3.7.1 RESPONSE TIME

Job / Task / Event Name	Response Time	Unit of	
Job/ Task/ Event Name	Upper Range	Lower Range	Measurement
Upload excel file	12 seconds	3 seconds	1000 records
Report Generation	60 seconds	2 seconds	1 report

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### 3.7.2 RECOVERY TIME

If network, database and application server stay ready then the recovery time of application is two hours.

### 3.8 GENERIC CONSTRAINTS

The **SSO** Module always has to interact with the FRS System. Also net working should be available.

## 3.9 STATUTORY & REGULATORY REQUIREMENTS

The rules and regulations will be maintained as per SCB suggestions.

## 3.10 OTHER REQUIREMENTS

N/A

## 4 RISKS, ASSUMPTIONS AND DEPENDENCIES

#	Risk	Explanation	Solution	Practise
1	Requirement	As the project	We will follow	dataedge has
	Deviation	progresses features that were not identified at	Signed Off –	started to follow CMMI processes
		the beginning of the	Requirement	which will help to
		project may emerge that can change estimates	Specification	manage and deliver quality
		and timelines.	Document. Any	products to client.
			change beyond	
			Signed- off	
			document will be	
			managed thru	
			change	
			management	
			Procedure.	
2	Missing	Missing the project	Stakeholders' will	dataedge team will
	Delivery	delivery deadlines and	be informed	follow work
	Delivery	milestones.	periodically about	breakdown

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#	Risk	Explanation	Solution	Practise
	Scheduled		the project status including issues, concerns and risks.	structure schedule (WBS Schedule). For any kind of variance team will overwork to maintain schedule.
3	Integration with FRS System	SSO will be developed within existing FRS System architecture. Existing Authorization System may not fulfill FMO requirements more over conflict may emerge for different functional and technical requirements of two projects.	SSO and FRS team will work together to overcome all technical and functional difficulty.	Testing team will test the whole application and correlate with the development teams about issues or concerns.

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## 5 USER DOCUMENTATION AND TRAINING

### **Documentation List:**

SL.No#	Particular
1	SRS for SSO

## **Training Schedule:**

N/A

### 6 ABBREVIATIONS AND ACRONYMS

Sr. No.	Abbreviations /Terms	Elaboration
1	SRS	System Requirement Specification
2	BRD	Business Requirements Definition
3	FRS	Foreign Exchange Reporting System
4	SSO	Securities Services Operation

## 7 APPENDIX (ADDITIONAL DATA)

N/A

## 8 SIGN OFF