

Trade Finance System (Import Module)

by

Ms. Oranuch Kanokvechayant

Final Report of the Three - Credit Course CS 6998 System Development Project

Submitted in Partial Fulfillment
of the Requirements for the Degree of
Master of Science
in Computer Information Systems
Assumption University

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Project Title Trade Finance System (Import Module)

Name Ms. Oranuch Kanokvechayant

Project Advisor Dr. Thotsapon Sortrakul

Academic Year July 1999

The Graduate School of Assumption University has approved this final report of the three-credit course, CS 6998 System Development Project submitted in partial fulfillment of the requirements of the degree of Master of Science in Computer and Information Systems.

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ABSTRACT

This report will explain only Import Module which is one part of the trade finance system for the flow of imported products between the ordering customers and beneficiary that contract with the Bank such as Letter of Credit, Shipping Guarantee and Bills for Collection. The new system is expected to hare data integrity, data consistency, reliability, user friendliness, timeliness, high performance and productivity with which the main importance is the need to support operational level especially for Finance and Accounting department interface.

This bank has various systems that are controlled by the host computer. This software application run bases on VM/VSE with Mainframe on Relational Database with COBOL programming language.

The trade finance system (Import Module) Implementation Project is implemented by SDLC methodology that consists of Context Diagram, Data flow Diagram, Format File Layout and Input / Output Layout

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ACKNOWLEDGEMENTS

This project is the conclusion of the effort of the writer. The process of work is not easy so it took a lot of time, around 1 year, for the development, implementation and configuration. Firstly she would like to take this opportunity to acknowledge with high gratitude to Dr. Thotsapon Sortrakul who is her project advisor for his suggestion though out this project study and checking of the format of this project. Many thanks to her father for many recommendations and reminder not to waste time 2 semesters ago.



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I. INTRODUCTION

1.1 Background of the Project

The system development is plan need to consider developing the system into a computerized system which is called "Import Module". It is an on-line, real-time trade system which supports all of the Trade Deal Type Requirements of a bank's import department, together with its associated interfaces to other systems of the bank. Import Module tracks all import transactions from the beginning to the end of a deal, and has the built-in flexibility to change with market demands as well as the specific bank's needs.

1.2 Objective of the Project

The Objective of the project for Import Module are as follows:

- To determine the information requirement by interviewing the concerned staffs and investigating hard date
- To analyze specification of the Import Module
- To design the recommended system including the software development and the hardware development
- To develop and test the software package for the system

1.3 Scope of the Project

The project is focused on the import letter of credit, Trust Receipt and Bill for Collection.

In order to reduce the manual work, reduce paper work, improve loan management and increase customer satisfaction, a computer information system is necessary. The project will cover the following areas:

1.3.1 Process Customer and Limits Profile

- employ the Customer database to update the change and create new customer
- employ the Limits database to update the change and verify limit from the
 Loan and Guarantee Department

1.3.2 Process Online Import Module

During the on-line process, all the update activities against the deal files can be recorded. The scope of the data to be recorded can be defined and changed (and may

also be switched on or off) at any time; for example, recording only the updates to the Customer and Limits databases.

- Import Letter of Credit
 The project can keep the information for the issuance of sight or time
 commercial letters of credit. It can calculate the commission of service.
- Trust Receipt

 The project can keep the information for the loan. And it can calculate the interest of sight or time for full and partial payment.
- Bill for Collections

The project is related to the processing of incoming collections. It's provided with direct access to numbers.

1.3.3 Process Batch Import System

Various reports can be produced from the accumulated historical data set. It can process job daily, weekly and monthly. It can calculate the accumulated interest and due dates.

II. THE EXISTING SYSTEM

System analysis is conducted under the structured system analysis and design and is purposed to understand the existing system. Information is gathered by interviewing some staff and observing documents and operation.

2.1 Background of the Existing System

The Trade Finance System involves the following:

- Import Division
- Export Division
- Foreign Exchange Division
- International Business Development
- Administration Division
- Correspondent Banking Division
- International Business center

This project has only The Import Module. The Import Module involves three services: Import Letter of Credit, Shipping Guarantee and Import Bills for Collection.

This system is operated by the Import Division under the supervision of the International Banking Department of Bangkok Metropolitan Bank.

The import module has necessary documents such as letter of credit, invoice, bill of lading, bill of exchange and so on which are derived from foreign bank in collecting money from customer buyer. The customer can loan the money from the bank by Trust Receipt. It means that the customer who has no money can receive the products first. The bank pays the money to the foreign bank in advance. So the customer must pay the interest, change and commission the amount later on.

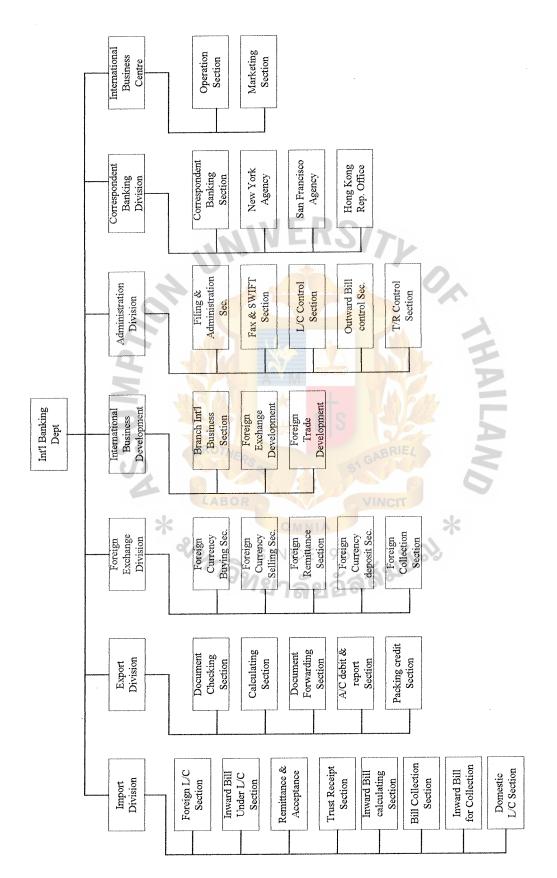


Figure 2.1. Organization Chart.

2.2 Exist Business Function

There are many business entities interacting with the Import Module, some provide input to and receive output from the system while some only receive output from the system, shown in figure 2.1 and described as follows:

Two-way interaction entities are

- Customers
- Foreign Bank
- Trade Finance Department

Report-requested entities are

- Account Department
- Bank of Thailand
- Audit Department
- Management
- Non-Performing Loan

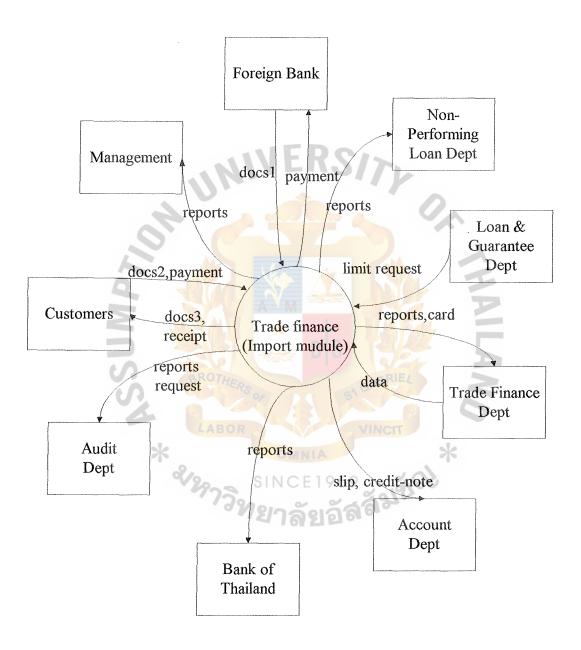


Figure 2.2. Context Diagram of the Existing System.

The operation of the import module involves maintaining the system environment, receiving and processing foreign request, processing collection and/or customer and processing foreign currency for the payment and/or foreign bank. These business functions are performed manually by the import division's staffs, shown in figure 2.2, and explained in the following paragraphs.

2.2.1 Keep Record of Various Data Stores

Lacking integrated database system, various entities using similar database have kept redundant data for their own operation. Without exception to the International Banking Department, it has to keep record of exchange rate, credit limit amount of customer, customer information in the form of document filing in sequence order.

2.2.2 Add New Customer

Certain information is requested from the new arrival customer in order to be kept in customer folder in the form of document filing.

2.2.3 Process Request Verification

The customer request issuance letter of credit. The staffs verify the documents and credit limit amount of customer from Loan & Guarantee Department.

2.2.4 Process Import Service

Then they send the letter of credit application form to the foreign bank. And the staffs receive the documents from the foreign bank, such as Bill of Exchange. So the customer must confirm the bills of exchange. If the type is Bill for collection, it is to be kept in the bill for collection folder in the form of document filing. The type is Letter of credit to be kept Inward bill Under L/C.

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2.2.5 Payment Process

The customer must pay the money according to the Bill of Exchange or request Trust Receive in the next step. So the customer will receive the receipts in the sight bill or debit note for due date in the term bill.

2.2.6 Trust Receive Process

The customer requests the trust receive which has trust receive credit-limit. The customer must pay the principal amount and interest amount when the term bill date is due.

2.2.7 Process Account

And the staffs send the manual slip, the debit/credit note, to the Account Department.

2.2.8 Report Preparation

The staffs must provide manual reports to the Bank of Thailand, Management, Audit request and so on by using the customer, Bills for collection, Inward bill under L/C, Credit-limit and Debit-credit note (Manual Slip) folder in form.

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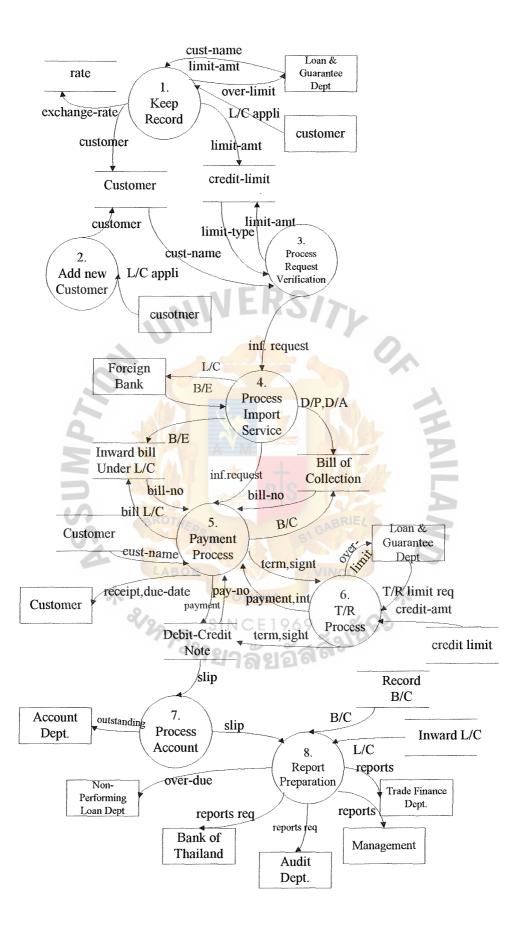


Figure 2.3. Data Flow Diagram Level 0 for the Existing System.

2.3 Problem Identification

Certain problems currently occurring are as stated below:

- The number of request increases gradually, therefore, the Bank's staffs are faced with overload work since most functions are performed manually and processing time is long.
- The risk of human error rate is high especially when there are a lot of requests to handle.
- The requested reports are not timely delivered because information is gathered and summarized manually.
- There are a lot of redundant data stores. Various entities have to create their own data stores to keep the information instead of using integrated database. Currently the data stores are kept in the form of documents.
- Customer and Foreign Bank cards are not timely updated because of work overload.
- The customer name and Foreign bank name are used as reference to them because there is no identification number assigned. Therefore, it is not convenient in searching for the information.

2.4 The Existing Hardware

Currently the Bank uses IBM mainframe to support most systems in the Bank with exception to the International Banking Department which uses a manual system and a few stand alone P/C only for some reports.

2.4.1 Hardware and Software of the Bank

- IBM mainframe
- VM/ES9000 operation system
- Dump Terminals

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III. THE PROPOSED SYSTEM

With the objectives to reduce current problems and prevent additional problems, the computerized system is designed. The proposed system is intended to serve all user requirements and to increase efficiency and effectiveness of import service.

3.1 User Requirement (System Specification)

The new system is configured to detect problem and cater user requirement as follows:

- Batch processing reduce access time and high performance.
- User friendly screen provide comfortable work
- Easy function
- The system must have error default on screen to warn user when input is incorrect
- Security is controlled by the system
- Report must be cleared and produced on time.
- The system should check digit for the numbers

3.1.1 Input Requirement

The following document is required as input of the system.

- Application Letter of Credit Form
- Bill of Exchange (Draft)
- Invoice
- Bill of Lading
- Packing List
- Letter of Guarantee

3.1.2 Output Requirement

- Receipt / Debit Advice
- Proof Sheet Report
- Daily Account Transaction File
- Daily Account Transaction report
- Import Finance Outstanding Report
- Commission Report
- Accrued interest Report

3.2 System Design

We must design how the interaction among modules actually take place-that is, the exact nature of the uses relation between any modules. The set of services that each module provides to its clients (i.e., the proposed module as it relates to other modules) is called its interface. The corresponding services are said to exported by the module and imported by the clients.

Two-way interaction entities are

- Foreign Bank
 Imported the documents (Bill of Exchange, Bill of Lading, Invoice)
 Exported to pay the money
- Customers

Imported to request the application form, pay the money for the Bill of Exchange

Exported to copy the documents, and Receipt / Debit Advice

Audit Department

Imported to inquire the data in the system

Exported to request the reports for auditing the system

Trade Finance Department (International Banking Department)
 Imported to data entry in the system
 Exported to some reports

One-way request entities are

- Bank of Thailand
 Exported to some reports
- Account Department
 Exported to the transaction report and file interface
- Loan & Guarantee Department
 Imported to request the credit limit of the customers report
- Non-Performing Loan Department
 Exported to the bad finance of customers file interface
- Management
 Exported to the MIS reports

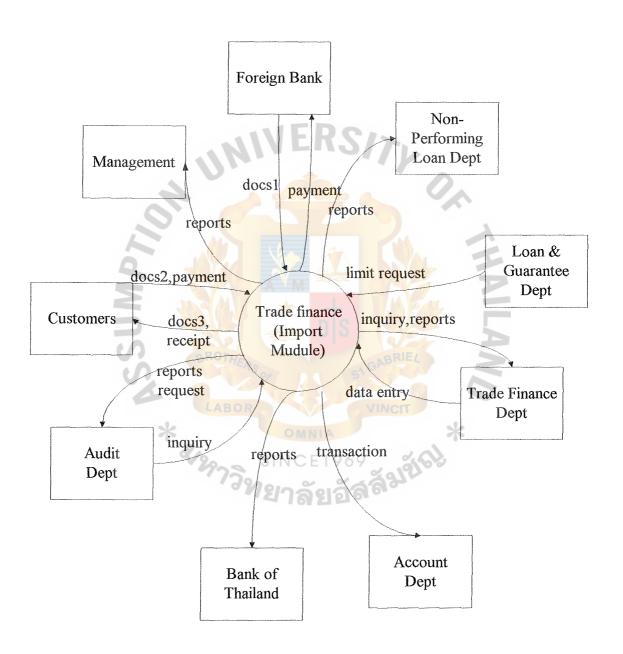


Figure 3.1. Context Diagram of the Proposed System.

3.3 The Proposed System Overview

The Proposed System's Context Diagram and Level 0 of Data Flow Diagram are shown in figures 3.1 and 3.2. The proposed system's operation include four processes: Process Customer & Limit Profile, Process Online, Process Batch and Prepare & print reports

3.3.1 Process Customer & Limit Profile

The customer must open the new customer and request the credit limit amount from Loan & Guarantee Department. Then the bank's staffs fill in the customer information and fill in the exchange rate on the screen

3.3.2 Process Online

- The customer requests the letter of credit application. The bank's staffs fill in the data entry screen. The system will calculate the commission and charge amount immediately.
- The bank's staffs send the L/C application to the foreign bank.
- The foreign bank send the bills of exchange back to the bank for collecting in the money. The system will calculate the principal amount for sending to the foreign bank.
- If the customer has no money, he/she must request trust receipt for loan of the money. The system will calculate the interest amount and due-date.
- The shipping guarantee and the bills for collection can be done.
- The bills are to have due-date. But if the customer cannot pay the money, the system will convert to trust receipt over due and send the information to the Non-Performing Loan department.

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3.3.3 Process Batch

Various reports can be produced from the accumulated historical data set. It daily, weekly and monthly processes the job. It calculates the accumulated interest amount and credit/debit transactions for interface to the Account Department.

3.3.4 Prepare & Print Reports

The bank's staffs (input-output staffs) will print the reports and send them to the department requesting them.



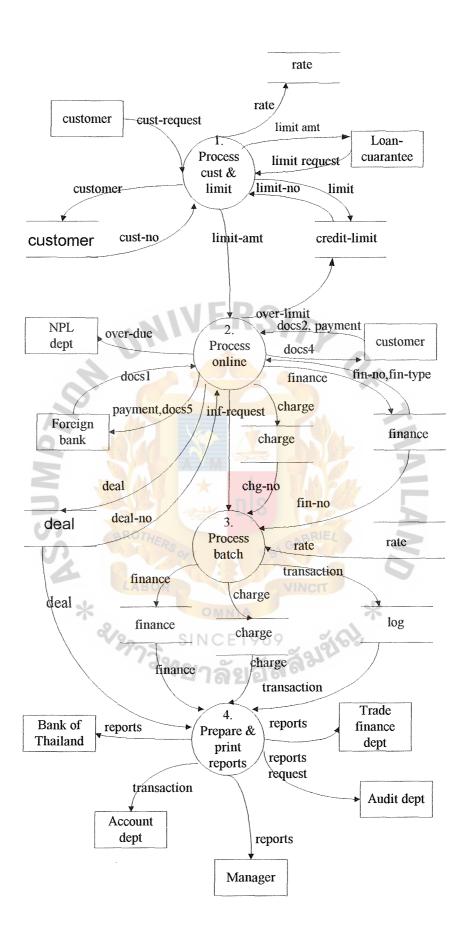


Figure 3.2. Data Flow Diagram Level 0 of the Proposed System.

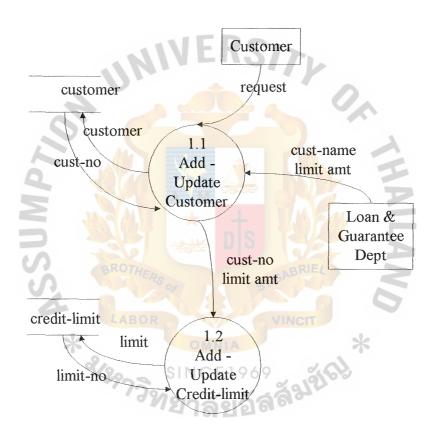


Figure 3.3. Data Flow Diagram Level 1 of the Proposed System Process Customer & Credit-limit Profile.

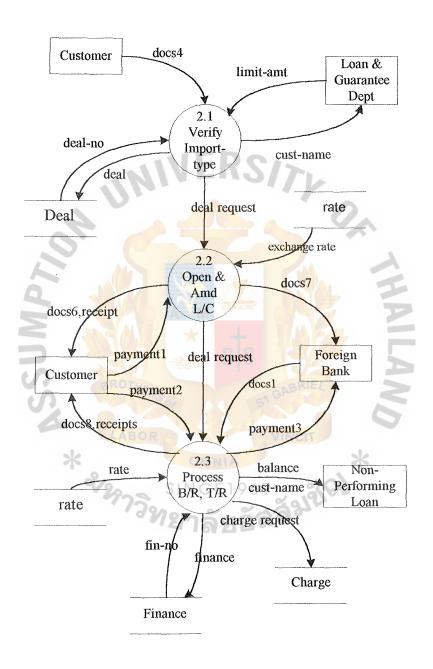


Figure 3.4. Data Flow Diagram Level 1 of the Proposed System Process Online System.

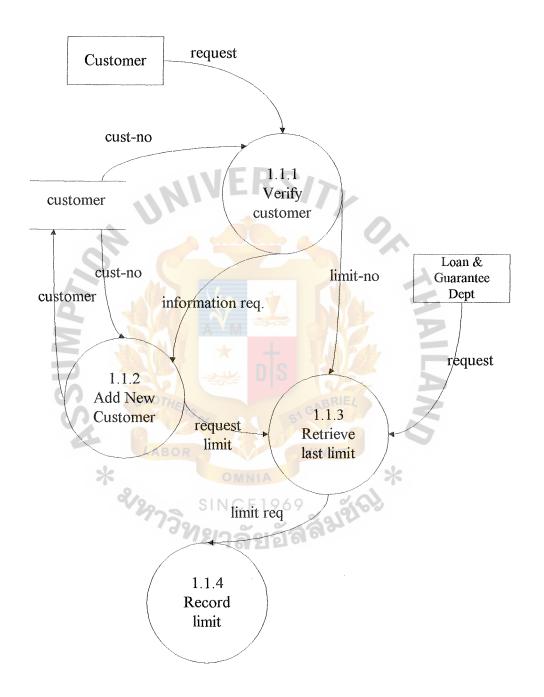


Figure 3.5. Data Flow Diagram Level 2 of the Proposed System Add, Update Customer.

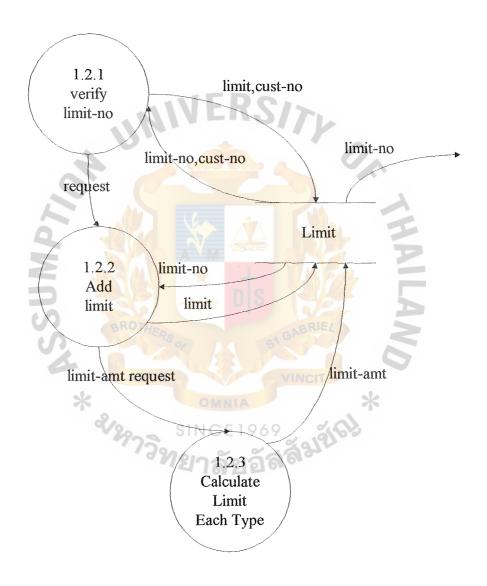


Figure 3.6. Data Flow Diagram Level 2 of the Proposed System Add & Update Credit-limit.

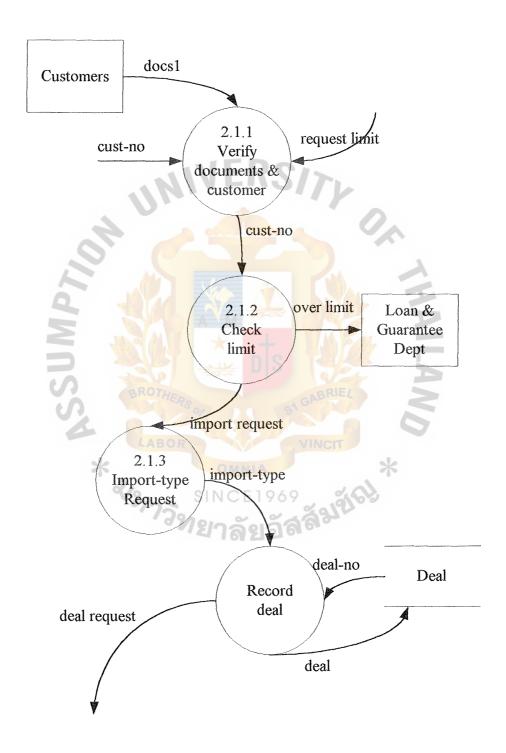


Figure 3.7. Data Flow Diagram Level 2 of the Proposed System Verify Import-Type.

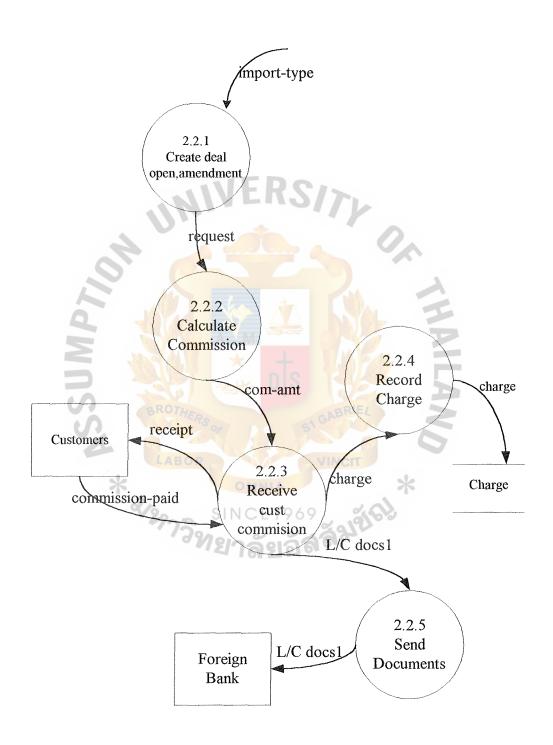


Figure 3.8. Data Flow Diagram Level 2 of the Proposed System Open & Amendment L/C.

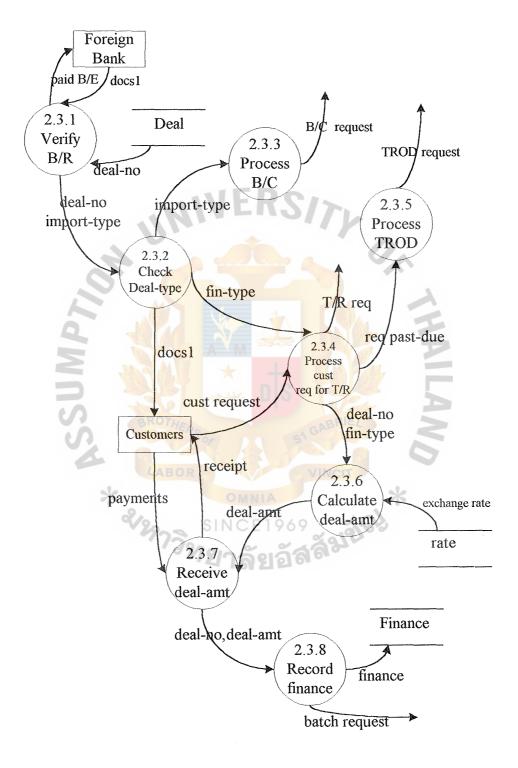


Figure 3.9. Data Flow Diagram Level 2 of the Proposed System Bills for Receive.

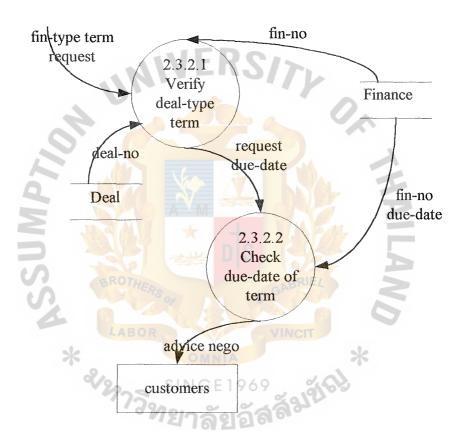


Figure 3.10. Data Flow Diagram Level 3 of the Proposed System Term of Bill for Receive.

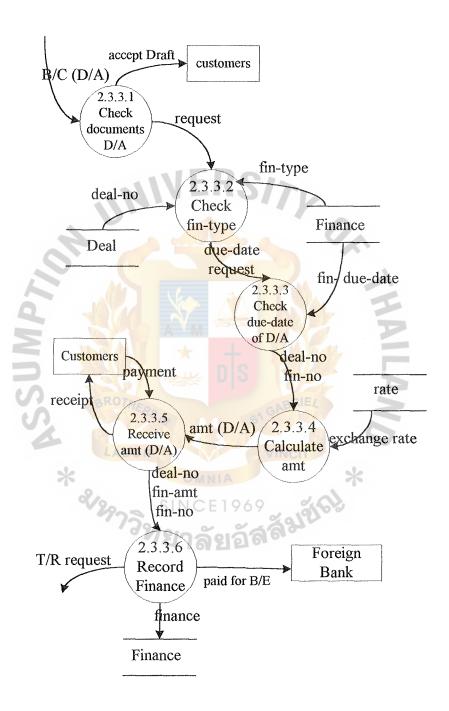


Figure 3.11. Data Flow Diagram Level 3 of the Proposed System Bill of Collection (Documents for Acceptance).

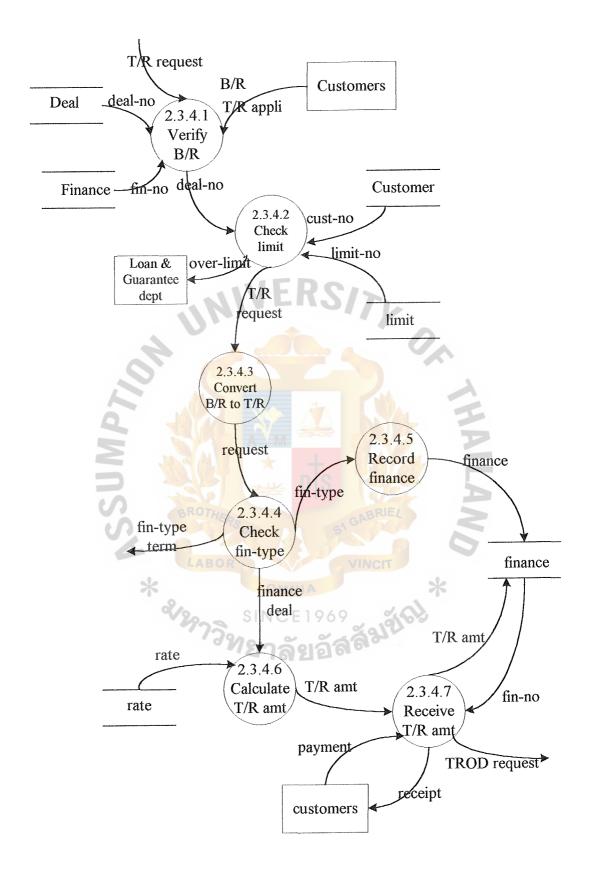


Figure 3.12. Data Flow Diagram Level 3 of the Proposed System Trust Receive.

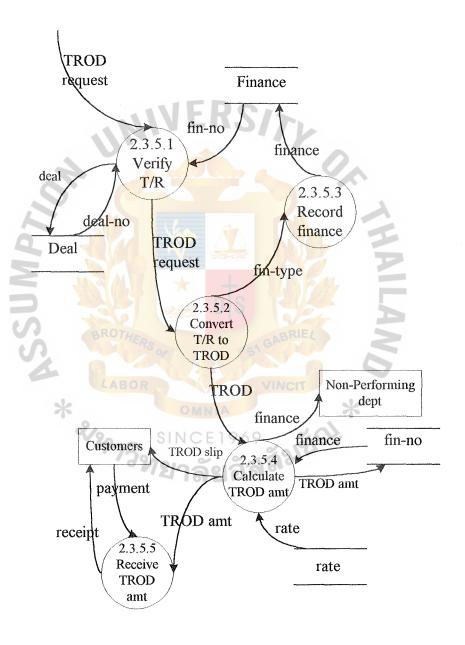


Figure 3.13. Data Flow Diagram Level 3 of the Proposed System Trust Receive Over Due.

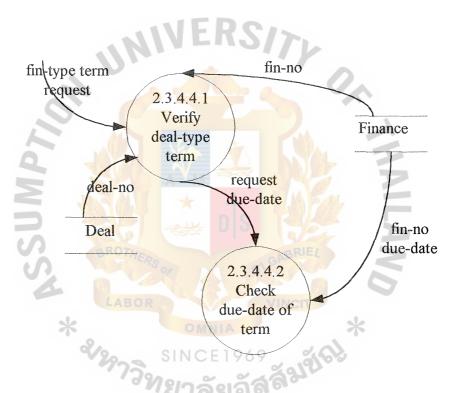


Figure 3.14. Data Flow Diagram Level 4 of the Proposed System Trust Receive of Term.

3.4 Screen Design

There are various matters being considered in designing screens in Trade Finance System (Import Module), all of which user friendly is the first consideration. Other matters of screen design are

- Keep screen presentation consistent
- Facilitate user movement among system
- Have good layout and easy to key-in
- Provide similar layout to input documents

3.5 Input / Output Design

3.5.1 Input Forms

All input forms, presented in Appendix D, are preprinted forms designed to be easy to use by users and convenient in recording in input screen.

The following input forms are on the next page.

3.5.2 Output Documents

All output documents, presented in Appendix E, are developed to provide reliable hard copy to user management, internal entities and external entities. The following output documents are on the next page.

LOGIN DATA SCREEN

BKK METROPOLITAN BANK INT'L BANKING DEPARTMENT LOGIN DATA	14.00 27/09/1998
	BANK ID :
	DEPARTMENT :
à	USER ID :
	PASSWORD :
	DIS 13
S	HELP LANGUAGE :
	NEW PASSWORD :
	LABOR VINCIT
	* OMNIA *
PFKS: 1=HELP, 2=SEARCH, 3=MSG, 5=E	SCAPE SINCE 1969

Figure 3.15. Input Login Data Screen.

DEAL IDENTIFICATION SCREEN

BKK METROPOLITAN BANK INT'L BANKING DEPARTMENT	<i>IMPORT</i>	LETTER OR CREDIT	ISS000	14.00 27/09/1998
DF41	IDENTIFICAT	TON WER	SITI	
DEAL	IDENTIFICAT.	1014		
CUTOMER ID :		N/A :		2
	.01			
CUST REF NO. :				
OUR L/C NO. :		DESC. :		-5
STATUS	1. CREATE 2. UPDATE 3. DIPLAY			
SELECT:	4. CANCEL 5. PRINT 15. EXIT	LABOR	SI GABRIEZ VINCIT	8
PFKS: 1=HELP, 2=SEARCH, 3=M	SG, 5=ESCAPE	, 10=PREVSINCE 19	69 MAIS	*

Figure 3.16. Input Deal File Screen.

REPORT NO. XXXXXXX

PROGRAM NO. XXXXXXX

DEPT.CODE =XXX

BANGKOK METROPOLITAN BANK CUSTOMER ACTIVITY REPORT AS AT DD MONTH YYYY PAGE NO. XXX
RUN DATE. DD/MM/YYYY
RUN TIME. HH:MM:SS

				AMERG			
	DEAL TYPE		DEALS COUNTER	TOTAL DEAL ACCUMULATION	TOTAL COMMISSION	TOTAL NO. OF LOANS	LOANS ACCUMULATION
				ACCOMOLATION			
	LETTER OF CREDIT	CURR MONTH	9999	9,999,999,999.99	9,999,99	9999	9,999,999,999.99
		CURR YEAR	9999	9,9 <mark>99,</mark> 999,999.99	<mark>9,9</mark> 99 <mark>,99</mark> 9,99	9999	9,999,999,999.99
		PREV YEAR	9999	<mark>9,999,</mark> 999,999.99	<mark>9,999,9</mark> 99,99	9999	9,999,999,999.99
33	BILLS FOR COLLECTION	CURR MONTH	9999	9,999,999,999.99	9,999,999,99	9999	9,999,999,999.99
		CURR YEAR	9999	9,999,999,999.99	9,999,999,99	9999	9,999,999,999.99
		PREV YEAR	9999 AR	9,999,999,999.99	9,9 <mark>99,999,9</mark> 9	9999	9,999,999,999.99
	TOTAL	CURR MONTH	9999	9,999,9 <mark>99,9</mark> 99.99	9,999,9 <mark>99,</mark> 99	9999	9,999,999,999.99
		CURR YEAR	9999	9,999, <mark>999,</mark> 999.99	9,999,999,99	9999	9,999,999,999.99
		PREV YEAR	9999	9,999,999,999.99	9,999,999,99	9999	9,999,999,999.99

Figure 3.17. Customer Activity Report.

REPORT NO. XXXXXXX	BANGKOK METROPOLITAN BANK	PAGE NO. XXX
PROGRAM NO. XXXXXXXX IMPO	RT DETAIL FINANCE OUTSTANDING REPORT	RUN DATE. DD/MM/YYYY
DEPT.CODE =XXX	AS AT DD MONTH YYYY	RUN TIME. HH:MM:SS
	WIVERS/>	
SEQ. DEAL NO. CUST-NAME FINNO	D E FF-DATE DUE-DATE CUR FC-FIR	N-AMT RATE TH-FIN-AMT
XXX 999-99-999999-9 XXXXXXXXXXXX XXX	DD/MM/YYYY DD/MM/YYYY XXX 999,999,9	99.99 999.99999 999,999,999.99
XXX 999-99-999999-9 XXXXXXXXXXXX XXX	X DD/M <mark>M/YYYY DD/MM/YYYY X</mark> XX 999,999,9	99.99 999.99999 999,999,999.99
XXX 999-99-999999-9 XXXXXXXXXXXX XXX	X D <mark>D/MM/YYYY DD</mark> /M <mark>M/</mark> YY <mark>YY</mark> XXX 999,999,9	99.99 999.99999 999,999,999.99
XXX 999-99-999999-9 XXXXXXXXXXXX XXX	X D <mark>D/MM/YYYY DD/MM/YYYY XXX 999</mark> ,999,9	99.99 999.99999 999,999,999.99
XXX 999-99-999999-9 XXXXXXXXXXXX XXX	X DD/MM/YYYY DD/ <mark>MM/YYYY</mark> XXX 999,999,9	99.99 999.99999 999,999,999.99
XXX 999-99-999999-9 XXXXXXXXXXX XXX	X D <mark>D/MM/YYYY DD/MM/YYYY XXX 9</mark> 99,999,9	99.99 999.99999 999,999,999.99
	LABOR	
** GRAND AMOUNT **	999,999	999,999,999

Figure 3.18. Import Detail Finance Outstanding Report.

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3.6 Hardware and Software Requirements

3.6.1 Hardware Requirement

- Personnel Computer
 - Inter Pentium II processor 400 MHz
 - 512 KB Internal Cache
 - Intel 440 BX chipset
 - 32 MB SDRAM memory
 - 4.3 GB HDD
 - 1.44 MB Floppy Disk Drive
 - Monitor 14"
- Lan Card
 - For workstation: Ethernet 32 Bit, PCI Bus for UTP
 - For printer: Ethernet for print server
- Hub
 - Link Builder FMS II 12 ports TP
- Electrical wiring
 - UTP cable
 - Patch Panel for 15 ports

3.6.2 Software Requirement

- Trade Finance System (Import Module)
- Window 98 for workstation
- MS Office
- Emulate S/W

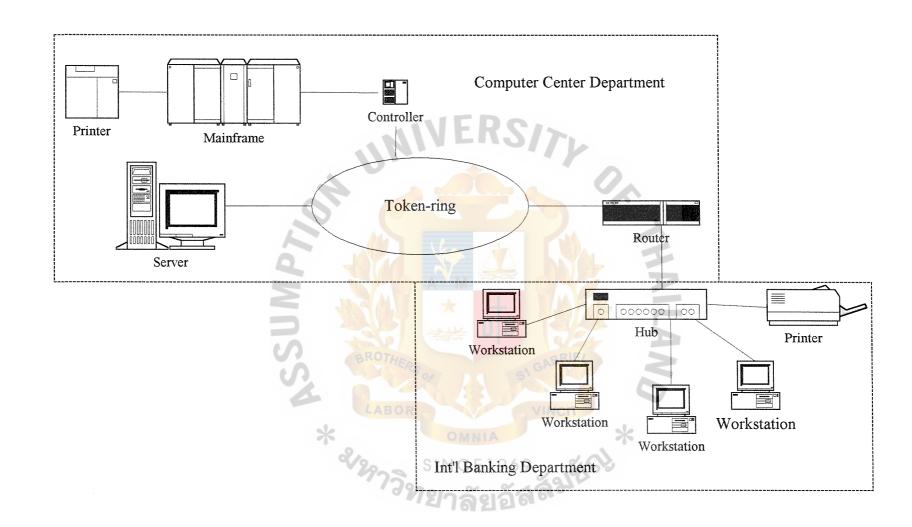


Figure 3.19. System Configuration.

3.7 Security and Controls

3.7.1 Security

- Routine Backup Tape
- Table space environment
- Snapshot Backup Schedule
- Confidential report for particular user
- Resource Access Control Facility to protect data files from unauthorized access.

3.7.2 Control

- Log file report with the concurrent report or anything from the system and the other system
- All processors must have audit trail
- The result must be analyzed and interpreted
- The proper information is to be presented to the committee and executive officers
- Executive officers who are involved in follow up with zone managers and branch manger about the performances are assisted.
- Cost modification should be formally reported to and approved by management.
- The result and defined problem in the document are to be tested and revised and approved by user and analyst.
- The program and document must be in the same way.

3.8 Cost / Benefit Analysis

3.8.1 Cost – Benefit

System Development cost estimably

Table 3.1. Cost – Benefit Analysis per Year, in Baht.

Cost items	Quan	Salary	Period (Month)	Amount	Total Amount
Feasibility		WEE	201-		
System Analyst	2	25,000	1	50,000	
Overhead Cost				10,000	
Sub Total		160			60,000
Functional system design		AM			
System Analyst	2	25,000	1	50,000	
System Design	BRC2HER	25,000	1 GABI	50,000	7
Overhead Cost	LABOR	of	VINC	10,000	
Sub Total	-ADON	OMNI	VIIV	*	110,000
Programming	29730	SINCE	969	18161	
System Design	2	25,000	129 9	50,000	
Programmer	2	25,000	1	50,000	
Overhead Cost				10,000	
• CPU Times	200			200,000	
Sub Total					310,000

Table 3.2. Cost – Benefit Analysis per Year, in Baht (continue).

Cost items	Quan	Salary	Period (Month)	Amount	Total Amount
Conversion and	UN	MEL	12/7	1	
Acceptance			-	90	
System Analyst	2	25,000	1	50,000	
System Design	2	25,000	1	50,000	
Programmer	2	20,000	1	40,000	
• Users	10	5,000	1 GABI	50,000	
Overhead Cost		of As	51	20,000	
CPU Times	40hrs	OMNI	VINC	40,000	
Sub Total	129730	SINCE	969	1शिहा	250,000
Total	. 93	⁷ ยาลัย	ାଧିଶ ^ର ି		714,000

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3.8.2 Implementation Cost

Table 3.3. Cost – Benefit Analysis for Implementation per Year, in Baht.

Cost items	Unit Price	Unit	Total
Hardware			
PC Server	115,500	1	115,500
PC Workstation	30,000	4	120,000
Server Printer	50,000	//1	50,000
Switching Hub	48,000	1	48,000
• Router	200,000	1	200,000
• UPS	100,000	1	100,000
Sub Total	543,500		633,500
Software	DIS	PIE	A
Netware	100,000	GABRIEL	100,000
Software License	10,000	VINC4	40,000
Sub Total	110,000	લંહો	140,000
Total	653,500	aggree and a second	773,500
Tangible Benefit (per year)			
Increase service providing capacity			2,400,000
 Effective managing of profit per customer 			1,500,000
Reduce volume of paper works			200,000
Total			4,100,000

3.8.3 Cost – Benefit Analysis

Table 3.4. Cost / Benefit Analysis for 5 Years, in Baht.

Cost items	Year 1	Year 2	Year 3	Year 4	Year 5
Investment					
Hardware	633,500				
• software	140,000	ERS	17.		
Total	773,500		14		
Implementation Cost					
Development Cost	100,800		TW.		
Training Cost	50,000			5	
Conversion Cost	50,000	e DIS			
Total	200,800		GABRIEL	Z	
Operation Cost	BOR		VINCIT	6	
Software maintenance	20,000	17,000	14,400	12,200	10,400
Hardware maintenance	40,000	34,000	29,000	24,600	20,800
Total	60,000	51,000	43,400	36,800	31,200
Accumulative cost	1034300	51,000	43,400	36,800	31,200
Operation cost saving					
Software maintenance	8,500	8,500	8,500	8,500	8,500
Hardware maintenance	17,000	17,000	17,000	17,000	17,000
Total	25,500	25,500	25,500	25,500	25,500

Table 3.5. Cost / Benefit Analysis for 5 Years, in Baht (continue).

	Cost items	Year 1	Year 2	Year 3	Year 4	Year 5
•	Increase volume 20% per year can get benefit increase 15%	400,000	450,000	470,000	470,000	500,000
•	Increase com. Charge	60,000	80,000	120,000	170,000	250,000
	Accumulative benefit	485,500	555,500	615,500	665,500	775,500
	Different	(548800)	504,500	572,100	628,700	744,300

3.8.4 Compare Cost and Benefit

Table 3.6. Compare Cost and Benefit, in Baht.

Year	Cost	Benefit	Different	Cumulative Different
1	1,034,300	485,500	(548,800)	(548,800)
2	51,000	55 <mark>5,500 NIA</mark>	504,500	(44,300)
3	43,400	615,500	572,100	527,800
4	36,800	665,500	628,700	1,156,500
5	31,200	775,500	744,300	1,900,800
Total	1,196,700	3,097,500	1,900,800	1,900,800

3.8.5 Payback Period

Payback period is determined to get the number of years required to accumulate earning sufficient to cover the cost of the purposed system.

The formula of Payback Period is:

$$P = I / (1-T) * R$$

Where P = Payback Period (Years)

I = Investment cost + Software Implementation cost

T = Tax Rate (45%)

R = Annual Saving

P = 974,300 / (1 - 0..45) * 4,100,000

Intangible Benefit

- Increase customer satisfaction from faster and convenience service which will lead to increase in the Bank's reputation as well.
- Increase staff motivation from easier and less work.
- Better decision making since information is up-to-date and timely prepared.
- Facilitates the attainment of organizational objective, facilitates access to information
- Provides a competitive advantage
- Increase communication capacity and quality
- Improved accuracy System provides data verification

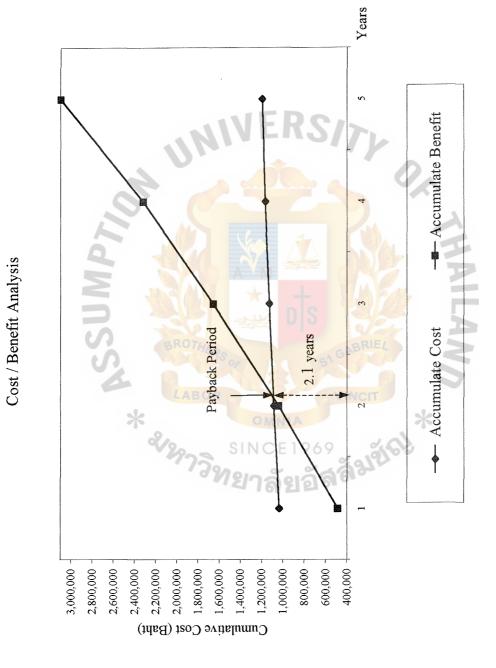


Figure 3.20. Graph of Cost-Benefit Analysis.

3.8.6 Breakeven Point

Cost Comparison between the Exist System and the Proposed System

The table list of the existing system and the proposed system cost in 5 years. This table
shows that the proposed system costs less than the existing system before three years as
shown in the following table calculation and chart in Figure 3.21:

Table 3.7. Total Cost of the Existing System,

Cost items	Years					
Cost items	\\\\lambda	2	3	4	5	
I. Investment Cost	0	0	0	0	0	
II. Implementation Cost	0	0	0	0	0	
III. Programmer(2) + Analysis(2)	100,000	110,000	120,000	130,000	140,000	
IV. Operating Cost & Maintenance	440,000	484,000	529,440	551,384	601,900	
Total Cost (Baht)	540,000	594,000	649,440	681,384	741,900	
Cumulative Cost (Baht)	540,000	1,13 <mark>4,000</mark>	1,783,440	2,464,824	3,206,724	

Table 3.8. Total Cost of the Proposed System.

Cost items	Years					
Cost items	20 1 S	NC219	9 3 %	4	5	
I. Investment Cost	773,500	_ 0	_%%\0	0	0	
II. Implementation Cost	200,800	71620	0	0	0	
III. Programmer(2) + Analysis(2)	100,000	110,000	120,000	130,000	140,000	
IV. Operating Cost & Maintenance	60,000	51,000	43,400	36,800	31,200	
Total Cost (Baht)	1,134,300	161,000	163,400	166,800	171,200	
Cumulative Cost (Baht)	1,134,300	1,295,300	1,458,700	1,625,500	1,796,700	

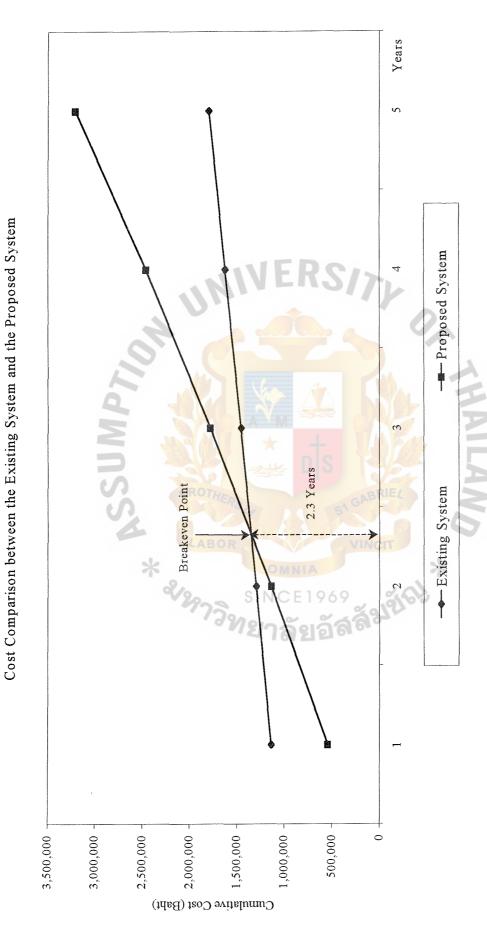


Figure 3.21. Cost Comparison between the Existing System and the Proposed System.

IV. PROJECT IMPLEMENT

4.1 Overview of Project Implementation (Schedule / Resource Utilized)

The project schedule was designed to cover the whole System Development Life Cycle (SDLC).

The reasons for setting the schedule are as the follows:

- We can know the step of the development
- We can go backward in case the development system has problems
- We can know the target date
- We can plan for the next step
- Data convesion result can be checked
- Both user training and management can be completed

4.2 Test Plan and Results

There are 3 steps to implementation: System testing, System modification and Data conversion.

Testing

Testing is an essential process to assure quality of the software, any errors found are debugged. The system is desk-checked and checked with test data before putting into protection. The desk-check is done through out the program coding process by following each step in the program on paper to verify the way the system will work. The finished modules are tested with test data either on individual module test or linked module test. The outputs are checked for errors to be corrected. With this testing method, the system capacity is proved in handling normal operation.

Finally the whole system has to be tested by users whether the system is accepted through acceptance test. The unpleasant test result requires system modification. On the other hand, the software installation can start.

Training

Training activities are conducted to familiarize personnel with the new system. Personnel receiving training includes system operators, direct users and management. The objective of the training must be clarified and evaluation of training allowed when it is completed.

Conversion

The parallel run would be performed during the first three months of using the new system. The existing system (manual) will go on togeter with the new system and their outputs are compared to ensure accuracy and complete operation. After ensuring the quality of the new system, the existing system will be stopped.

Post implementation evaluation

After using the system for three months, the evaluation should be held in order to ensure that

- 1. The system goals and objectives have been achieved.
- 2. Operation on Trade Finance (Import Module) service is faster and has fewer documents.
- 3. User service requirements have been met.

The modification on the system has to be done if the system does not ensure the above consideration or unexpected limitations are found.

Cost-benefit analysis may be difficult to apply since information systems provide information about objectives for the first time, making it impossible to compare performance before and after the implementation of the system. The system utility approach to evaluation can be more comprehensive than the others if it is expanded and systematically applied.

The Project Planning are presented by Grant Chart in Figure 4.1

Figure 4.1. Project Plan.

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V. CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

Data are the most valuable resources of any organization. Timely data aid in decision making of management and in the daily operation of the Bank's staff. Bundles of data are difficult and time consuming to handle manually. The current problems of Bangkok Metropolitan Bank are:

- 5.1.1 The number of request increases gradually, therefore, the Bank's staffs are faced with work overload since most functions are performed manually and processing time is long.
- 5.1.2 The risk of human error rate is high especially when there are a lot of requests to handle.
- 5.1.3 The requested reports are not timely delivered because information is gathered and summarized manually.
- 5.1.4 There are a lot of redundant data stores. Various entities have to created their own data stores to keep information instead of using integrated database.

 Currently most data stores are kept in the form of documents.
- 5.1.5 Customer and Foreign Bank cards are not timely updated because of work overload.
- 5.1.6 The customer name and foreign bank name are used as reference to them because there is no identification number assigned. Therefore it is not convenient to search for their information.

To solve current problems and prevent future problems, improvement areas are suggested as follows:

- Reduce manual work by having computerized system doing the time consuming jobs such as
 - finding related information in providing service to customer
 - preparing worksheet
 - preparing customer and foreign bank card
- Use integrated database to reduce redundancy of data stores.
- Let computerized system generate reports on timely basis and when reports are needed.
- Keep a record of the master file up-to-date.
- Develop identification number to assign to customer and foreign bank for easy reference.

In conclusion, the computerized Trade Finance System (Import Module) provides service to the Bangkok Metropolitan Bank. The requested documents and reports can be generated on time by the system. Necessary information in providing Import service is provided in the form of hard copy or output screen.

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Degree of Achievement of the Proposed System Compared with the Existing System

Table 5.1 shows the time spent on each process of the Proposed System compared with the Existing System. It shows that each process of the Proposed System spends less time than each process of the Existing System which has to pass many manual work steps. This can be explained as that the Proposed System is more efficient and effective than the Existing System.

Table 5.1. Comparison of Degree of Achievement between the Proposed System and the Existing System.

Process	Existing System	Proposed System
Application Process	1 hr.	45 mins.
Data Entry Process	30 mins.	10 mins.
Inquiry Process	15 mins.	5 mins.
Payment Process	15 mins.	2 mins.
Modification Process	1 hr. 1 8	15 mins.
Printing Process	10 mins	5 mins.
Total	3 hrs. 10 mins.	1 hr. 22 mins

5.2 Recommendations

In order to maintain the computerized Trade Finance System (Import Module) and facilitate the overall operation, the following recommendations are noted.

• Integrated computerized system

The banking business generally has high transaction volumes which are difficult and inappropriate to operate manually. The integrated computerized information system is essential to provide more effective and efficient operation. Moreover current computer hardware and software have higher technology at a cheaper price than those provided in the past and they are worth investing because it's benefit is usually higher than the cost.

Therefore, the Bank and the management should initiate and promote the development of the computerized system for other operations one by one.

The Bank should also consider implementing electronic data interchange (EDI) between the Bank and the customers, so that the Bank's key-in function can be reduced. The customer's request through EDI can be used as input to the system.

• Integrated database

The integrated database of the whole bank's operation should be gradually analyzed and designed in order to reduce database redundancy and to provide effective control. To accomplish it, data should be collected from each operation.

- Evaluate changes in user requirement
 - The computerized Trade Finance System (Import Module) has to be evaluated and modified to fit changes in user requirement. The computer equipments have to be evaluated also to consider acquiring new hardware.
- Input Validation
 SINCE 1969

Every data entry should be re-keyed by another staff to validate input data.



Format File of Deal File

Table A.1. Proposed System of Deal File.

S						Remark
E	Field-name	Tropo	Length	Position	Description	(Value or
1	riciu-name	Type	Lengin	FOSITION	Description	Condition)
Q						Condition
1	Ixdel-deal-no	Num	12	1-12	Deal no /	Running
1	Ixdei-deai-no	Num	12	1-12	transaction	123-01-000001-5
					transaction	123=branch,
						01=L/C,
						01-L/C, 02=S/G,
						02=3/G, 03=B/C
		. 1	111	- RC	13	00001=running
			Mai	10		5=digit
		CI		0.10.46	0	form customer
2	Ixdel-cust-id	Char	34	13-46	Customer id	file
		CI		17.60	C -t-	1110
3	Ixdel-cust-ref-no	Char	16	47-62	Customer	
١.		GI	1.6	60.70	reference no	\(\)
4	Ixdel-invoice-no	Char	16	63-78	Invoice no	
5	Ixdel-lc-col-no	Char	16	79 <mark>-</mark> 94	Letter-of-credit	
				0.7.07	/collection no	
6	Ixdel-last-amd-no	Num	3	95-97	Last amendment	
l		C.M.	. *	00.100	no	
7	Ixdel-last-adj-no	Num	3	98-100	Last adjust no	
8	Ixdel-last-settlement-no	Num	3	101-103	Last settlement no	
		a ROTH	0	104 106	Last	
9	Ixdel-last-msc-no	Num	Rs 3	104-106	miscellaneous no	
10	Ixdel-last-poa-no	Num	3	107-109	Last payment of	
	T 111 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	NTALE O	D 6	110-114	acceptance no Last charge no	
11	Ixdel-last-charge-no	Num Num	R 5	110-114	Last finance no	
12	Ixdel-last-finance-no	Num	3	113-117	Last release	
13	Ixdel-last-release-amd	Num	3	110-120	amendment	
14	Y-udal last unlages adi	Num	SINO	121-123	Last release	
14	Ixdel-last-release-adj	Num	900	121-123	adjustment	
15	Tydal country and	Char	3	124-126	Country code	Country code
13	Ixdel-country-code	Chai	3	124-120	Country code	table
16	Ixdel-del-curr	Char	3	127-129	Deal currency	Currency table
17	Ixdel-expiry-date	Num	8	130-137	Expiry date	yyyymmdd
18	Ixdel-expiry-date Ixdel-original-amt	Num	15,2	138-152	Original amount	
19	Ixdel-deal-balance	Num	15,2	153-167	Deal balance	
20	Ixdel-liability-deal-	Num	15,2	168-182	Liability deal	
20	balance	111111	12,2	100 102	balance	
21	Ixdel-liability-acp-	Num	15,2	183-197	Liability	
41	balance	140111	13,2	103 17,	acceptance	
	varance				balance	
22	Ixdel-deal-amt	Num	15,2	198-212	Deal amount	
23	Ixdel-liability-deal-rate	Num	11,7	213-223	Liability deal rate	
24	Ixdel-liability-acp-local	Num	15,2	224-238	Liability	
~ '	and mak to any				acceptance local	
					balance	
25	Ixdel-purge-sw	Char	1	239-239	Purge deal	Y=purged,
	r		-			N=depurged

Format File of Operational Letter of Credit

Table A.2. Proposed System of Operational Letter of Credit.

SE	Field-name	Туре	Length	Position	Description	Remark (Value or
1	rieid-name	Type	Lengin	FOSITION	Description	Condition)
Q						Condition)
١.,	T 1. 1	NT	15.0	1 15	Letter of credit	
1	Ixolc-lc-amt	Num	15,2	1-15		
	·	CI	2	16.10	amount	Cumanay tabla
2	Ixolc-lc-curr	Char	3	16-18	Currency of the	Currency table
	~	~1		10.10	L/C amount	37/37 4-1-1-
3	Ixolc-confirm-sw	Char	1	19-19	Confirm	Y/N table,
١.			1,20	20.24	C - C	default is N
4	Ixolc-confirm-amt	Num	15,2	20-34	Confirm amount	A
5	Ixolc-amt-terms	Num	1	35-35	Amount terms	Amount terms
						table, default is
			1.7.0	26.70	77	0 (exactly)
6	Ixolc-vary-amt	Num	15,2	36-50	Vary amount	
7	Ixolc-vary-prct	Num	4,2	51-54	Vary percent	
8	Ixolc-country-code	Char	3	55-57	Country-code	Country table
9	Ixolc-city-name	Char	20	58 <mark>-7</mark> 7	City-name	
10	Ixolc-goods-origin	Char	3	78-80	Goods origin	Country table
11	Ixolc-goods-desc	Char	35	81-115	Goods description	From ixicd-
		3 MI			MAGAL	goods-desc
12	Ixolc-available-with	Num	1	116-116	Available with	Available with
		0	باليهم	פוח		table
13	Ixolc-settlement-by	Num	1	117-117	Settlement by	Method of
		BRUTHE	Ro		GABRIEL	settlement table
	03	3-1	05	5	A	, default is 2
		9				(acceptance)
14	Ixolc-sight	Char	R 1	118-118	Sight	Y=sight,
	4			TALL A	4	N=terms,
	7		U	INIA		default is Y,
	or,	0	SINO	F1060	0,0	sight table
15	Ixolc-tenor-days	Num	SINO	119-122	Tenor days	
16	Ixolc-draft-after	Char	2/8/7	123-124	Draft after	Draft after table
17	Ixolc-draft-date	Num	8	125-132	Date of maturity	yyyymmdd
18	Ixolc-effective-date	Num	8	133-140	Effective date	Default : system
						date
19	Ixolc-expiry-date	Num	8	141-148	Expiry date	yyyymmdd
20	Ixolc-expiry-country	Char	3	149-151	Expiry country	Country table
21	Ixolc-expiry-place	Char	20	152-171	Expiry place	
22	Ixolc-days-for-	Num	3	172-174	Days of	Default : 21
	presentation				presentation	days
23	Ixolc-inco-terms	Char	1	175-175	Incoterm	Incoterms table,
						default : A (cif)
24	Ixolc-shipment-by	Char	1	176-176	Transportation	Transportation
~'			_		type	type table
25	Ixolc-first-shipment-date	Num	8	177-184	First shipment	Yyyymmdd
	1.10.0 III of Dispirem with				date	
26	Ixolc-last-shipment-date	Num	8	185-192	Last shipment	yyyymmdd
1 ~	more surplicat date	1.04144			date	
27	Ixolc-port-from	Char	24	193-216	Port from	
28	Ixolc-port-to	char	24	217-240	Port to	
	more post to			~ . ~		
i			t			1

Format File of Internal Control Data

Table A.3. Proposed System of Internal Control Data.

S E Q	Field-name	Туре	Length	Position	Description	Remark (Value or Condition)
1	Ixicd-deal-desc	Char	35	1-35	Deal description	
2	Ixicd-lc-lg-type	Char	2	36-37	Letter of credit /	L/C type table,
					letter of guarantee	default : 1
					type	(ordinary L/C)
3	Ixicd-link-to-deal-no	Num	12	38-49	Link to deal no	From ixdel-
		CI.	1	50.50	m 6111	deal-no
4	Ixicd-type-of-link-to	Char	VIII .	50-50	Type of link	Link type table
5	Ixicd-transmit-via	Char	1	51-51	Transmit via	Transmit via
						table, default : S
		C1	A . 22	50.50	D	(swift) Transmit via
6	Ixicd-transmit-doc-via	Char		52-52	Documents	1
					received via	table, default:
		AM	1/	# A T # A	7	A (airmail)
7	Ixicd-cust-branch-id	Char	3	53 -5 5	Bill branch id	Department
						table
8	Ixicd-first-date	Num	8	56-63	Application date	Default : system
		Q AL			I M PAR	date
9	Ixicd-second-date	Num	8	64-71	Application	yyyymmdd
				e plo	arrival date	
10	Ixicd-second-hour	Num	4	72-75	Application	hhmm
	.0		RS		arrival hour	70 0 11
11	Ixicd-third-date	Num	8	76-83	Issue date	Default : system
12	Ixicd-third-hour	Num	4	84-87	Issue hour	date and time
13	Ixicd-goods-category	Char	R 16	88-103	Goods category	Goods
	*		0	ANUA	*	description table
14	Ixicd-insurance-cover-sw	Char	1	104-104	Cover note/open	C=cover note,
	9	20 -	SINO	CE1969	Policy	O=open policy,
		175	0.	04 04 0	3917	I= irrelevant,
			MEIN	ลัยลูด	.610	default : I
15	Ixicd-insurance-co-code	Char	3	105-107	Insurance	Insurance
				100 100	Company code	company table
16	Ixicd-insurance-co-name	Char	16	108-123	The insurance	Insurance
				104 100	company name	company table
17	Ixicd-insurance-policy-	Char	16	124-139	The insurance	
	no	~-		140 145	policy note	A account torse
18	Ixicd-by-1	Char	6	140-145	Type of account 1	Account type table
		G1	21	146 176	A	table
19	Ixicd-account-1	Char	31	146-176	Account no. 1	Currency table
20	Ixicd-curr-1	Char	3	177-179	Foreign currency	Currency table
		C1		100 105	Trans of account 2	Account type
21	Ixicd-by-2	Char	6	180-185	Type of account 2	table
	T ! 1 (2	C1	21	106 216	Account no. 2	tauic
22	Ixicd-account-2	Char	31	186-216	1	Currency table
23	Ixicd-curr-2	Char	3	217-219	Foreign currency 2	Currency table
1	T	Chan	6	220-225	Type of account 3	Account type
24	Ixicd-by-3	Char	0	220-223	Type of account 3	table
						WOIO
			<u>L</u>	L	<u> </u>	L

Table A.4. Proposed System of Internal Control Data (continue).

SE	Field-name	Туре	Length	Position	Description	Remark (Value or
Q						Condition)
25	Ixicd-account-3	Char	31	226-256	Account no. 3	Currency table
26	Ixicd-curr-3	Char	3	257-259	Commission	Collected as a
27	Ixicd-comm-factor	Num	8,6	260-267	factor rate	commission for
28	Ixicd-comm-fixed-amt	Num	15,2	268-282	Foreign currency3Commis sion fixed amount	opening the deal Currency table
29	Ixicd-comm-fixed-amt-	Char	3	283-285		Exchange rate
	curr				Foreign currency	type table
30	Ixicd-comm-fixed-rc	Char	1	286-286		
					Rate code for the	
1			4 X I E	DC	currency	
31	Ixicd-application-	Char	1	287-287	calculation	
	approved				Application	
32	Ixicd-lc-col-no	Char	16	288-303	approved	From customer-
					Letter of credit /	id
33	Ixicd-cust-ref-no	Char	16	304-319	collect number	Yes/No table,
					Customer	default : N
34	Ixicd-preadvice-sw	char	1	340-340	reference number	
		A	1/20	1	Preadvice (y/n)	
		DYAA	1 1 1 1 1 1 1 1 1 1			

Format File of Finance File

Table A.5. Proposed System of Finance File.

S E Q	Field-name	Туре	Length	Position	Description	Remark (Value or Condition)
1	Ixfin-no	Num	3	1-3	Finance number	Running on create finance
2	Ixfin-create-step-type	Char	3	4-6	Finance created	
3	Ixfin-create-step-no	Num	3	7-9	step type Finance create	
4	Ixfin-type	Char	4	10-13	step number Type of loan	Finance type
	The sypt		11.			table
5	Ixfin-curr	Char	3	14-16	Loan currency	Currency table
6	Ixfin-correct-for-date	Num	8	17-24	Correct for date	System date
7	Ixfin-status	Num	1	25-25	Finance status	1 = regular
						2 = irregular
						3 = pastdue
8	Ixfin-irregular-cause	Char	3	26-28	The cause of the	
					irregularity	
9	Ixfin-status-date	Num	8	29-36	Date of change of	
		ALL			status	
10	Ixfin-eff-date	Num	8	37-44	Effective date of	default is
		A 1/6	- 11	nIS	the finance	system date
11	Ixfin-period	Num	3	45-47	Period	
12	Ixfin-due-date	Num	8	48-55	Loan maturity	eff-date +
			PS OF	91	date	period
13	Ixfin-usance-limit	Num	3	56-58	Usance limit	not is use
14	Ixfin-ref-no	Char	16	59-74	Reference number	
15	Ixfin-pri-amt	Num	15,2	75-89	Principal loan	default is deal
	Min pir unit		01	INIA	amount	amount
16	Ixfin-pri-conv	Num	15,2	90-104	Amount of the	
	-	2000	SINC	CE1969	principal	
		1/2	900	~ ~ ~	converted finance	
17	Ixfin-pri-paid	Num	15,2	105-119	Amount of the	
	• •				principal paid	
18	Ixfin-int-amt	Num	18,5	120-137	Interest amount	
19	Ixfin-int-conv	Num	18,5	138-155	Amount of the	
					interest converted	
20	Ixfin-int-upfront	Num	18,5	156-173	Interest advance	
21	Ixfin-int-paid	Num	18,5	174-191	Amount of the	
	•				interest paid	
22	Ixfin-upfront-days	Num	3	192-194	Days of the	
					upfront	
23	Ixfin-debit-at-maturity-	Char	1	195-195	Debit at maturity	Yes/no table
	SW	~:		106 201		A
24	Ixfin-debit-by	Char	6	196-201	Type of account	Account type table or monthly interest collect sw = y
25	Ixfin-debit-acc-no	Char	34	202-235	Account number	Monthly interest collect sw = y

Table A.6. Proposed System of Finance File (continue).

S E Q	Field-name	Туре	Length	Position	Description	Remark (Value or Condition)
26	Ixfin-forward-contract- no	Char	16	236-251	Forward contract number	
27	Ixfin-current-int-type	Num	1	252-252	Current interest type	Fixed/floating or interest type table
28 29	Ixfin-fixed-up-to Ixfin-fixed-fund	num Num	8 9,6	253-260 261-269	Fixed due date Cost of fund	Default is the due date
30	Ixfin-fixed-margin-type	Char	1	270-270	interest rate Fixed Margin	P (positive), N (negative),
		UN	IVE	RS	type	Z (zero), default: P, Margin type table
31	Ixfin-fixed-marging	Num	9,6	271-280	Fixed margin interest rate	Default as defined in the customer or
	7		Yes	1		bank margin general level
32	Ixfin-float-type	Num	1	281-281	Type of floating interest rate	Floating rate type table
33	Ixfin-float-margin-type	Char	1★	282-282	Floating margin type	The same as fixed margin type
34	Ixfin-float-margin	Num	9,6	283-291	Floating margin interest rate	
35	Ixfin-float-penalty-1	Num	9,6	292-300	Penalty fields	7
36	Ixfin-float-penalty-2	Num	9,6	301-309	INCIT	
37	Ixfin-insurance-policy-	Char	1	310-310	Insurance(Y/N)	
	sw		ON	INIA	ж	
38	Ixfin-paid-up-to-date	Num	8	311-318	Paid up to date	Calculated from
39	Ixfin-godown	Char	SINC	319-321	Warehouse code	daily process Godown list table
40	Ixfin-conv-from-fin-no	Num	3	322-324	Converted from finance number	uoxo
41	Ixfin-conv-step-id	Char	6	325-330	Converted from step id	
42	Ixfin-conv-eff-date	Num	8	331-338	Effective date converted from finance	Default : release date
43	Ixfin-int-update-date	Num	8	339-346	Interest updated date to	Default : system date
44	Ixfin-int-update-time	Num	4	347-350	Interest updated time to	Default : system time
45	Ixfin-proc-eve	Char	3	351-353	Process events	
46	Ixfin-pay-curr	Char	3	354-356	Paying currency	
47	Ixfin-pay-rate-code	Char	1	357-357	Paying rate code	Exchange rate table
48	Ixfin-int-pd-charges	Num	18,5	358-375	Interest amount past due charges	

St. Gabriel's Library

Format File of Debit / Credit

Table A.7. Proposed System of Debit / Credit File.

2 Ixchg-step-id Char 6 6-11 Charge step ID 3 Ixchg-charge-id Num 6 12-17 ID code of debit/credit table 4 Ixchg-charge-cr Char 3 18-20 ID of party being credited ID of party being debited 5 Ixchg-charge-dr Char 3 21-23 ID of party being debited 6 Ixchg-charge-curr Char 3 24-26 Currency code Amount of the transaction 7 Ixchg-charge-amt Num 1 42-42 Event at which the transaction 8 Ixchg-charge-when Char 1 42-42 Event at which the transaction 9 Ixchg-charge-auto-sw Num 1 43-43 Charge auto flag 0=ma 10 Ixchg-settled-at-type Char 3 44-46 Settled at type Settled at number 11 Ixchg-settled-at-no Ixchg-cr-calc-curr Char 3 50-52 Credit calculated 12 Ixchg-cr-calc-curr Char 3 50-52 Credit calculated 13 Ixchg-settled Ixchg-cr-calc-curr Charge Ixchg-cr-calc-curr Charge Ixchg-cr-calc-curr Charge Ixchg-cr-calc-curr Charge Ixchg-cr-calc-curr Charge Ixchg-cr-calc-curr Charge Ixchg-cr-calc-curr Ixchg-cr-calc-curr Charge Ixchg-cr-calc-curr Ixch	/Credit es table es table ency table
Ixchg-charge-id	es table
Ixchg-charge-id	es table
4 Ixchg-charge-cr Char Char 3 18-20 debit/credit ID of party being credited ID of party being debited Currency code Currency code Amount of the transaction Event at which the transaction Ixchg-charge-auto-sw Num Char Num 1 43-43 Charge auto flag Ixchg-settled-at-type Ixchg-settled-at-type Ixchg-cr-cale-curr Ixchg-cr-cale-curr Xum Char Settled at type Settled at number Char Ixchg-cr-cr Credit rate code Ixchg-cr-cst-rate Num Ixchg-cr-cst-rate Credit customer	es table
5 Ixchg-charge-dr 6 Ixchg-charge-curr 7 Ixchg-charge-amt Num 15,2 10 Ixchg-charge-amt Num 15,2 21-23 Credited ID of party being debited Currency code Amount of the transaction Event at which the transaction N=re L=lat N=lat N=re L=lat N=re L=	es table
Solution Char Cha	
6 Ixchg-charge-curr	
Char Settled at type Char Settled at number Char Settled at number Char Settled at number Char Settled at number Char	ency table
Ixchg-charge-amt Num 15,2 27-41 Amount of the transaction Event at which the transaction N=re L=late	ency table
Ixchg-charge-when Char 1 42-42 Event at which the transaction When the transaction N=re L=lat	1
Ixchg-charge-when Char 1 42-42 Event at which the transaction When the transaction N=reconstruction	
10 Ixchg-settled-at-type	ı table
9 Ixchg-charge-auto-sw Num 1 43-43 Charge auto flag 0=ma 1=au 10 Ixchg-settled-at-type 11 Ixchg-settled-at-no 12 Ixchg-cr-cale-curr Char 13 Ixchg-cr-rc Char 14 Ixchg-cr-rc Char 15 Ixchg-cr-cst-rate Num 11,7 Char 24-46 A4-46 Settled at type Settled at number Credit calculated by currency Credit rate code table Credit remitting bank exchange rate Credit customer	
9 Ixchg-charge-auto-sw 10 Ixchg-settled-at-type 11 Ixchg-settled-at-no 12 Ixchg-cr-calc-curr 13 Ixchg-cr-rc 14 Ixchg-cr-rc 15 Ixchg-cr-cst-rate 1	
10 Ixchg-settled-at-type 11 Ixchg-settled-at-no 12 Ixchg-cr-cale-curr 13 Ixchg-cr-rc 14 Ixchg-cr-rc 15 Ixchg-cr-cst-rate 16 Ixchg-settled-at-type 17 Ixchg-settled-at-no 18 Ixchg-cr-cale-curr 19 Ixchg-cr-cale-curr 10 Ixchg-settled-at-type 19 Ixchg-cr-cale-curr 10 Ixchg-settled-at-type 10 Ixchg-cr-cale-curr 11 Ixchg-cr-cale-curr 12 Ixchg-cr-rc 13 Ixchg-cr-rc 14 Ixchg-cr-rmb-rate 15 Ixchg-cr-cst-rate 16 Ixchg-cr-cst-rate 17 Ixchg-settled-at-type 18 Ixchg-settled-at-no 19 Ixchg-settled-at-no 10 Ixchg-settled-at-type 10 Ixchg-settled-at-no 10 Ixchg-settled-at-type 11 Ixchg-cr-cale-curr 12 Ixchg-cr-rc 13 Ixchg-cr-rc 14 Ixchg-cr-rc 15 Ixchg-cr-cst-rate 15 Ixchg-cr-cst-rate 16 Ixchg-settled-at-type 19 Ixchg-settled-at-no 10 Ixchg-settled-at-no 10 Ixchg-settled-at-no 10 Ixchg-settled-at-no 11 Ixchg-cr-cale-curr 12 Ixchg-cr-rc 13 Ixchg-cr-rc 14 Ixchg-cr-rc 15 Ixchg-cr-rc 16 Ixchg-settled-at-no 17 Ixchg-settled-at-no 18 Ixchg-settled-at-no 19 Ixchg-settled-at-no 19 Ixchg-settled-at-no 10 Ixchg-settled-at-no 10 Ixchg-settled-at-no 10 Ixchg-settled-at-no 11 Ixchg-cr-rc 12 Ixchg-cr-rc 13 Ixchg-cr-rc 14 Ixchg-cr-rc 15 Ixchg-cr-rc 16 Ixchg-settled-at-no 17 Ixchg-settled-at-no 18 Ixchg-settled-at-no 19 Ixchg-settled-at-no 19 Ixchg-settled-at-no 19 Ixchg-settled-at-no 10 Ixchg-settled-at-no 10 Ixchg-settled-at-no 10 Ixchg-settled-at-no 10 Ixchg-settled-at-no 11 Ixchg-settled-at-no 12 Ixchg-settled-at-no 13 Ixchg-settled-at-no 14 Ixchg-settled-at-no 15 Ixchg-settled-at-no 16 Ixchg-settled-at-no 17 Ixchg-settled-at-no 18 Ixchg-settled-at-no 19 Ixchg-settled-at-no 10 Ixchg-settled-at-no 11 Ixchg-settled-at-no 12 Ixchg-settled-at-no 13 Ixchg-settled-at-no 14 Ixchg-settled-at-no 16 Ixchg-settled-at-no 17 Ixchg-set	
10 Ixchg-settled-at-type 11 Ixchg-settled-at-no 12 Ixchg-cr-calc-curr 13 Ixchg-cr-rc 14 Ixchg-cr-rc 15 Ixchg-cr-cst-rate 1 Ixchg-cr-cst-rate 2 Ixchg-cr-cst-rate 3 Ixchg-csttled at type Settled at number Credit calculated by currency Credit rate code table Credit remitting bank exchange rate Credit customer Credit calculated by currency Credit remitting Credit customer Credit calculated by currency Credit remitting Credit customer Credit calculated Credit remitting Credit customer Credit calculated Credit remitting Credit customer Credit calculated Credit remitting Credit calculated Credit remitting Credit calculated Credit remitting Credit calculated Credit remitting Credit customer Credit calculated Credit remitting Credit customer Credit customer Credit customer Credit customer	
11 Ixchg-settled-at-no 12 Ixchg-cr-cale-curr 13 Ixchg-cr-rc 14 Ixchg-cr-rmb-rate 15 Ixchg-cr-cst-rate 1	
12 Ixchg-cr-calc-curr Char 3 50-52 Credit calculated by currency 13 Ixchg-cr-rc Char 1 53-53 Credit rate code exchatable 14 Ixchg-cr-rmb-rate Num 11,7 54-64 Credit remitting bank exchange rate 15 Ixchg-cr-cst-rate Num 11,7 65-75 Credit customer dependent	ge-when
13 Ixchg-cr-rc Char 1 53-53 by currency Credit rate code table dependent of the control of the c	
14 Ixchg-cr-rmb-rate Num 11,7 54-64 Credit remitting bank exchange rate 15 Ixchg-cr-cst-rate Num 11,7 65-75 Credit customer dependent	
14 Ixchg-cr-rmb-rate Num 11,7 54-64 Credit remitting bank exchange rate Country of the country o	ange rate
bank exchange rate of the large rate of the larg	
15 Ixchg-cr-cst-rate Num 11,7 65-75 Credit customer deper	
15 Ixchg-cr-cst-rate Num 11,7 65-75 Credit customer dependent	ode
10 1 110119 01 000 1000	
Cachange rate	oue
To mong or actual rate	
17 Ixchg-cr-change-amt Num 15,2 87-101 Credit transaction amount	
	ange rate
18 Ixclig-ci-local-late-code chai 1 102-102 Creat four fate chair fate code table	<i>3</i>
	nd on
exchange rate rate of	
20 Ixchg-cr-local-amt num 15,2 114-128 Credit local ixchg	ode
amount amt	g-cr-charge-
	g-cr-charge-
exch	g-cr-charge- g-cr-local-
21 Ixchg-dr-calc-curr Char 3 129-131 Debit calculated	g-cr-charge- g-cr-local-
by currency	g-cr-charge- g-cr-local-
22 Ixchg-dr-rc Char 1 132-132 Debit rate code exchatable	g-cr-charge- g-cr-local- -rate
	g-cr-charge- g-cr-local-
1 23 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	g-cr-charge- g-cr-local- g-rate
rate	g-cr-charge- g-cr-local- rate ange rate
	g-cr-charge- g-cr-local- g-rate

Table A.8. Proposed System of Debit / Credit File (continue).

S						Remark
E	Field-name	Type	Length	Position	Description	(Value or
Q			_		-	Condition)
24	Ixchg-dr-cst-rate	Num	11,7	144-154	Debit customer	depend on
	U]	Í		exchange rate	rate code
25	Ixchg-dr-actual-rate	Num	11,7	155-165	Debit actual rate	
26	Ixchg-dr-change-amt	Num	15,2	166-180	Debit transaction	
27	Ixchg-dr-local-rate-code	Char	1	181-181	amount Debit	exchange rate
	2				local rate code	table
28	Ixchg-dr-local-exch-rate	Num	11,7	182-191	Debit local	depend on
1			·		exchange rate	rate code ixchg-
						dr-charge-amt *
29	Ixchg-dr-local-amt	Num	15,2	192-206	Debit local	ixchg-dr-local-
			4411	DC	amount	exch-rate
30	Ixchg-conv-chg-sw	Char	1	207-207	Transaction	Default: N
1	2				convertd by	(NO)
31	Ixchg-comm-period	Num	3	208-210	Commission	
					period	
32	Ixchg-comm-type	Char	1	211-211	Commission type	Minimum= N
						Maximum=X
33	Ixchg-fin-no	Num	3	212-214	Finance number	Derived from
		A				ixfin-no
34	Ixchg-original-curr	Char	3	215-217	Original currency	Derived from
1 1			AA			ixolc-lc-
	No.	MA			TA GAL	curr/ixocl-cl-
	A. A			То		curr
35	Ixchg-original-amount	Num	15,2	218-232	Original amount	Derived from
	(1)	aROTU.				ixolc-lc-
		BRUTHE	Ro		GABRIEL	amt/ixocl-cl-amt
36	Ixchg-original-rate	Num	11,7	233-243	Original exchange	
		8			rate	
37	Ixchg-dr-cr-local-difr	num	₹ 15,2	244-258	Different between	Ixchg-dr-local-
	*		0.1	ANILA	Debit and Credit	amt – Ixchg-cr-
	*		O I	INIA	local	local-amt
	9	6_	SINC	`E1060		

Format File of Payment

Table A.9. Proposed System of Payment File.

S E Q	Field-name	Туре	Length	Position	Description	Remark (Value or Condition)
1	Ixpay-drawing-amt	Num	15,2	1-15	Amount of this payment	Default : deal amount
2	Ixpay-confirmed-amt	Num	15,2	16-30	Confirmed amount	
3	Ixpay-over-lc	Num	15,2	31-45	The letter of credit sum is exceeded.	
4	Ixpay-doc-presentation-date	Num	8	46-53	Documents presentation date	yyyymmdd
5	Ixpay-doc-arrival-date	Num	8	54-61	Documents arrival date	
6	Ixpay-doc-source	Num	1	62-62	Method of payment	Source of payment table
7	Ixpay-doc-in-order	Char	1	63-63	Documents in order (Y/N)	Yes/No table
8	Ixpay-draft-no	Char	16	64-79	Number of draft	
9	Ixpay-pay-category	Char	6	80-85	Payment category	Bill category table
10	Ixpay-transportation- name	Char	16	86-101	Transportation name	D
11	Ixpay-transport-doc-no	Char	16	102-117	Number of	
	UP.		OF	91	transport	
					document	
12	Ixpay-transport-doc-date	Num	R 8	118-125	Date of transport	yyyymmdd
13	Ixpay-port-from	Char	24	126-149	documents Port of embarkation	
14	Ixpay-port-to	Char	24	150-173	Destination	
15	Ixpay-invoice-no	Char	9 16	174-189	Supplier's invoice	
16	Ixpay-invoice-date	Num	8	190-197	Date of invoice	
17	Ixpay-late-presentation- sw	Char	1	198-198	Late presentation	Yes/No table
18	Ixpay-late-shipment-sw	Char	1	199-199	Late shipment	Yes/No table
19	Ixpay-lc-expiration-sw	Char	1	200-200	Expiration of L/C	Yes/No table
20	Ixpay-poa-installment	Num	3	201-203	Pay of acceptance installment	
21	Ixpay-apa-category	Char	6	204-209	Actual payment category	
22	Ixpay-warning-code	Char	6	210-215	Warning code	
23	Ixpay-rmt-bank-ref-no	Char	16	216-231	Remitting bank reference number	
24	Ixpay-pres-bank-ref	Char	16	232-247	Presentation bank reference number	
25	Ixpay-cust-ref-no	Char	16	248-263	Customer reference number	Derived from customer file
26	Ixpay-draft-date	Num	8	264-271	Date of draft	

St. Gabriel's Library

Table A.10. Proposed System of Payment File (continue).

S						Remark
E	Field-name	Type	Length	Position	Description	(Value or
Q						Condition)
27	Y 4	C1	1	204 204	Transmentation	Transportation
27	Ixpay-transportation-type	Char	1	284-284	Transportation type	Transportation table
28	Ixpay-rmt-neg-inter	Num	11,2	272-272	Negotiating bank	table
20	mpay mit nog men	110211	1.1,2	2,22.2	interest amount	
29	Ixpay-conv-int-sw Ixpay-	Char	11	273-283	Converting	Default : N
30	rmt-neg-comm	num	1,2	285-295	negotiating bank	Yes/No table
					interest	
					Negotiating bank commission	
31	Ixpay-conv-comm-sw	Char	1	296-296	Converting	Default : N
J.	1xpay-conv-commi-sw	Chai	4311	270 270	negotiating bank	Yes/No table
		- 1	// A r	-11-2	commission	
32	Ixpay-rmt-neg-charg	Num	11,2	297-307	Negotiating bank	
					charges amount	D C 1: 37
33	Ixpay-conv-chg-sw	Char		308-308	Converting	Default : N Yes/No table
					negotiating bank charges	1 es/No table
34	Ixpay-br-interest-sw	Char	1	309-309	Bill for received	Default : n
	inpuy of interest su	A	(60		interest	Yes/No table
35	Ixpay-br-interest-rate	Num	11,7	310-320	Bill for received	Derived from
			A		rate	B/R rate
36	Ixpay-br-interest-amt	Num	11,2	321-331	Bill for received	Calculated BR
37	Townson agents by int gree	Char	12.14	332-332	amount Converting bill	interest amount Default : N
37	Ixpay-conv-br-int-sw		1	332-332	for received	Yes/No table
			Ro		interest amount	
38	Ixpay-conv-drw-amt-sw	Char	21	333-333	Converting	Default : N
		9			drawing amount	Yes/No table
39	Ixpay-amt-to-conversion	Num	15,2	334-344	Amount to be	
	*		01	INIA	converted from deal to local	
	9	10	CINIC	051040	currency	
40	Ixpay-rate-code	Char	SINC	345-345	Rate code for	Exchange rate
. `	inputy the cour	1.7.9	201919	2000	conversion	type table
			141	अश्वाचा क		Default: 1 (mid
						rate)
41	Ixpay-rate	Num	11,7	346-356	Conversion rate	
42	Ixpay-converted-amt	Num	15,2	357-371	The total converted	
					amount, in local	
					currency	
43	Ixpay-book-num	char	7	372-378	Foreign currency	
	•				exchange booking	
					number	
						L

Format File of Customer

Table A.11. Proposed System of Customer File.

S						Remark
E	Field-name	Type	Length	Position	Description	(Value or
Q	1 1014 1141110	1710				Condition)
1	Ixcst-customer-id	Char	9	1-9	Customer id	
2	Ixcst-customer-name-eng	Char	34	10-43	Customer name in	
-					english	
3	Ixcst-customer-name-	Char	50	44-93	Customer name in	
	local				local	
4	Ixcst-parent-company-id	Char	9	94-102	Parent company	
	, , ,				id	
5	Ixcst-cust-branch	Char	3	103-105	Customer branch	
6	Ixcst-economic-sector	Char	6	106-111	Economic sector	Economic sector
						table
7	Ixcst-customer-type	Char	1	112-112	Customer type	Customer type
						table
8	Ixcst-cust-classification	Char	1	113-113	Customer	
				1	classification	-
9	Ixcst-cif-id	Char	34	114-147	Customer	
			A		information file id	
10	Ixcst-risk-grade-category	Char	3	148-150	Risk grade	1-5 level
	40			Tall	category	
11	Ixcst-imp-no	Char	16	151-166	Import number	derived from
	(0)				NAME OF THE PROPERTY OF THE PR	deal segment
12	Ixcst-address1	Char	50	167-216	Address 1	
13	Ixcst-address2	Char	50	217-266	Address 2	
14	Ixcst-telephone-no	Char	16	267-283	Telephone	
		LABO	R	204 212	number	
15	Ixcst-cust-mail-box-no	Char	30	284-313	Customer mail	
	7	C1	0	214.216	box number	Country code
16	Ixcst-country-of-	Char	SINO	314-316	Customer country	table
	residence	CI.	1	217 217	of residence	'n'=nostatement
17	Ixcst-statement-	Char	Mein	317-317	Statement	'd'=daily
	frequency		141	MIND	frequency of	'w'=weekly
					customer	'm'=monthly
						'q'=quarterly
						'h'=halfyearly
						'y'=yearly
10	Y limit as 1 d-4-	NI	8.	318-324	Limit approval	yyyymmdd
18	Ixcst-limit-approval-date	Num	0	J10"J2#	date	jjjiiiii
10	Tweet account amon data	Num	8	325-332	Account open	yyyymmdd
19	Ixcst-account-open-date	INUIII	0	J43-334	date))) J IIIII GG
20	Ixcst-account-delete-date	Num	8	333-340	Account delete	yyyymmdd
20	TAUST-ACCOUNT-UCICIE-GATE	TANTE	"	333-340	date	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1				l	<u> </u>	<u></u>

APPENDIX B DATA DICTIONARY FOR DATA FLOW DIAGRAM SINCE 1969

Data Dictionary of Data Flow Diagram

• Amd : Amendment

• B/C : Bills for Collection

• B/E : Bill of Exchange (Draft)

• B/R : Bills for Receive

• Charge : Dr Customer

Cr Commission

• Chg-no : Charge Number

• Commission-paid : Pay commission for open L/C or amendment L/C

Commission = 1/4 % per 3 months, Minimum = 1,000 Baht

• Com-amt : Commission Amount

• Cust : Customer

• Cust-no : Customer Number

• Cust-request : Customer Request

• Cust-name : Customer Name

• Cust-request : Customer request

• D/A : Documents for Acceptance

• Deal-amt : Principal amount + Interest amount

• Deal-no : Number of Bill of Exchange

• Dept. : Department

• Docs1 : Bill of Exchange (Draft), Bill of Lading, Invoice,

Insurance, Packing List

Docs2 : Application Letter of Credit form, Proforma Invoice,

Application for Amendment

Docs3 : Acceptance for Bill of Exchange, receipt/debit advice

copy from Docs1

Docs4
 Receipt/Debit Advice, Draft

• Docs5 : Accept Draft, Discrepancies

• Docs6 : Deal number (Letter of Credit number), Receipt for

Commission

Docs7 : Application Letter of Credit by SWIFT/TELEX

Docs8
 Receipt/Debit Advice, copy from Docs1

• D/P : Documents Against Payment

• Fin-amt : Finance Amount

• Fin-no : Finance Number

• Fin-type : Finance Type B/R term or B/R sight

• Import-type : 01 = Letter of Credit, 02 = Shipping Guarantee,

03 = Bills for Collection

• Inf. Request : Information Request

• Int : Interest

• L/C : Letter of Credit

• L/C appli : Application Letter of Credit Form

• L/C docs1 : Application Letter of Credit by SWIFT/TELEX

• Limit-amt : Limit Amount

• Limit-no : Limit Number

Limit-req : Limit Request

• Payment1 : Pay commission for open L/C or amendment L/C

Commission = 1/4 % per 3 months, Minimum = 1,000 Baht

• Payment2 : Pay Principal amount and Interest amount

Interest amount =

(Principal amount * days * interest rate) / year

Or pay commission of bills for collection

Commission = 1/8 % per Deal number (B/C number)

Minimum = 1,000 Baht

• Payment 3 : Payment to Foreign

Report req : reports request

S/G : Shipping Guarantee

• T/R : Trust Receive

• T/R appli : Application Trust Receive Form

TROD : Trust Receive Over Due Date



SUB SYSTEM MENU

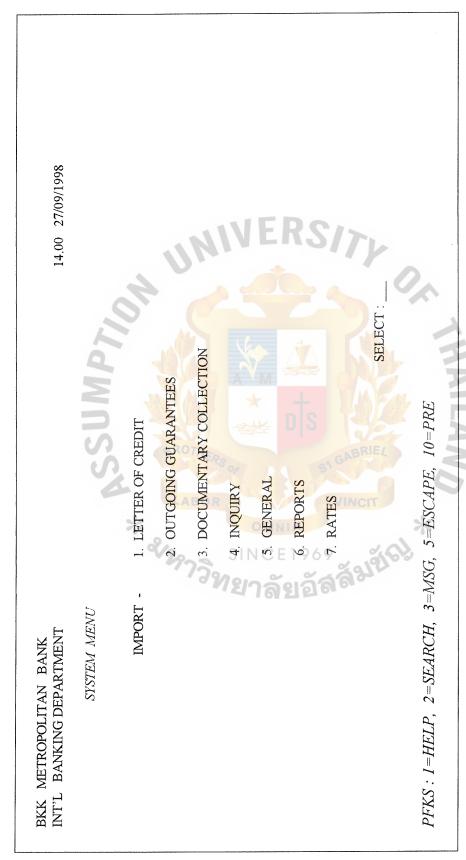


Figure C.1. Sub System Menu Screen.

				TO THE PROPERTY OF THE PROPERT	Γ
BKK METROPOLITAN BANK INT'L BANKING DEPARTMENT	IMPORT	LETTER OR CREDIT	14.00	14.00 27/09/1998	
MAIN MENU	Sa	SUMPT			
1. ISSUANCE	*	8. MISCELLANEOUS			
2. AMENDMENT	LA	9. ADJUSTMENT	. 1		······································
3. PAYMENT		10. BOOK OFF	N		
4. ACTUAL PAYMEN <mark>T</mark>	ENT		V		
5. ACCEPTANCE			E		
6. ACTUAL ACCEPTANCE	PTANCE		RS		
7. PAYMENT OF ACCEPTANCE	ACCEPTANCE		S/		
<u> </u> સર્જે	NCIT	DATA ENTEV OD DET EASE (D/D).			
		SELECT	CT:		
PFKS: 1=HELP, 2=SEARCH, 3=MSG, 5=ESCAPE, 10=PREV	TAPE, 10=PREV				

Figure C.2. Main Menu Screen.

Figure C.3. Report Menu Screen.

Figure C.4. Data Group Menu Screen.

INTERNAL CONTROL DATA SCREEN

BKK METROPOLITAN BANK IMPORT LETTER OR CREDIT ISS000 14.00 27/09/1998 INT'L BANKING DEPARTMENT	DEAL DESCRIPTION:	×29	LINK TO DEAL NO.:TYPE OF LINK:	SINC 72176	SEND LC/AMD VIA : DOCUMENTS RECEIVED :	ADVISING BANK L/C:	CUSTOMER INSTRUCTIONS:	PFKS: I=HELP, 2=SEARCH, 3=MSG, 5=ESCAPE, 10=PREV, 11=NEXT
BKK METROPOLITAN BANK INT'L BANKING DEPARTMEN	DISPLAY DEAL DESCRIPT	L/CTYPE:_	LINK TO DEAL N		SEND LC/AMD V	ADVISING BANK	CUSTOMER INST	PFKS: I=HELP, 2=SE

Figure C.5. Input Internal Control Data Screen.

OPERATIONAL DATA SCREEN

14.00 27/09/1998 555-01-0000001	00. OB %:	^
LETTER OR CREDIT ISS000	CURR: CONFIRM AMOUNT: VARY AMOUNT: CITY: ORIGIN: TENDOR DAYS: OR DATE: RACE: INCOTERM: LAST SHIPMENT DATE: TO:	i, 10=PREV, 11=NEXT
BKK METROPOLITAN BANK IMPORT LE	L/C AMOUNT :	PFKS: 1=HELP, 2=SEARCH, 3=MSG, 5=ESCAPE, 10=PREV, 11=NEXT

Figure C.6. Input / Output Operational Data Screen.

PARTIES SCREEN

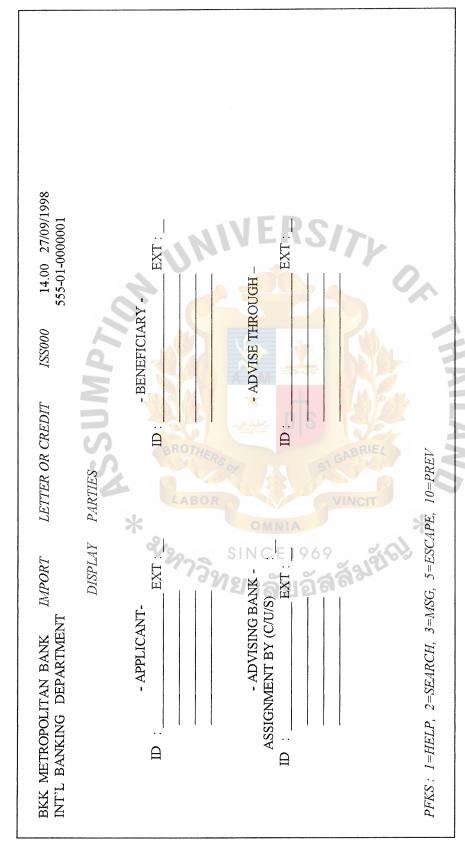


Figure C.7. Input / Output Parties Screen.

FINANCE SCREEN

APA001 14.00 27/09/1998 555-01-0000001	CURRECT FOR: _/ / STATUS DATE: _/_/	TOTALS 0.00 0.00 LIEU-COMM (Y/N): RATE: CGIN PENALTIES 0.000000 0.000000 0.000000 0.000000	
LETTER OR CREDIT	CURRENCY: DUE DATE: //	T REF NO 0.00 0.00 0.00 0.00 ACC NO: PAYMENT CURR: MARGIN TYPE MAR	//N):3=MSG, 5=ESCAPE, 10=PREV
BKK METROPOLITAN BANK IMPORT INT'L BANKING DEPARTMENT	CREATE CREATED LOAN TYPE : STATUS : EFF DATE	ENROUTE: PRINCIPAL 0.00 CONVERTED: 0.00 UPFRONT: 0.00 PAID 0.00 BALANCE: 0.00 DEBIT AT MATURITY (Y/N): BY: CURRENT INT TYPE FORWARD CONTRACT NO: FUND: 0.000000 FIXED- UP TO: // FUND: 0.000000	EFF DATE = RELEASE DATE ? (Y/N) : $PFKS: I=HELP, 2=SEARCH, 3=MSG, 5=.$

Figure C.8. Input / Output Finance File Screen.

DEBITS AND CREDIT SCREEN

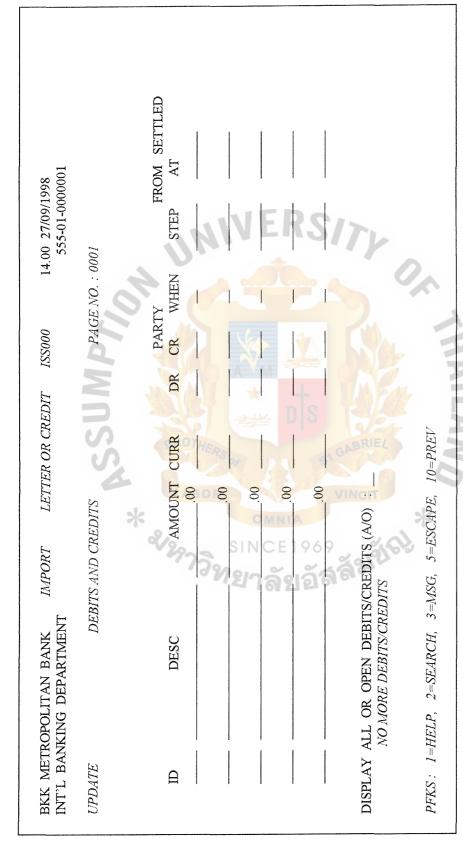


Figure C.9. Output Debit / Credit File Screen.

TEXT EDITOR SCREEN

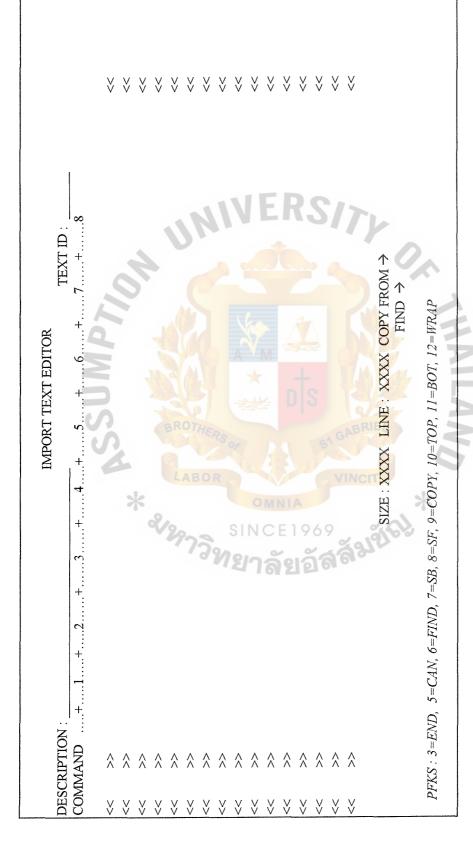


Figure C.10. Output Text Editor Screen.

CUSTOMER PROFILE 1 SCREEN

IMPORT 14.00 27/09/1998	DMER PROFILE 1	SECTION ID : ACCOUNT DELETE DATE :	ER,	ACCOUNT NO. : ACCOUNT NO. : ACCOUNT NO. :	5=ESCAPE, 6=EXT, 10=PREV, 11=NEXT, 12=WHO
BKK METROPOLITAN BANK INT'L BANKING DEPARTMENT	DISPLAY CUSTOMER PROFILE 1	SECTION ID :		VINCIT	PFKS: I=HELP, 2=SEARCH, 3=MSG, 5=ESCAPE, 6=EXT, 10=PREV, 11=NE
BKK METROI INT'L BANKIN		BILL BRANCH ID LOCAL BSA CLASSIFICATION CUSTOMER TYPE PARENT COMPANY ID LIMIT APPROVAL DATE ACCOUNT OPEN DATE RISK GRADF CATEGORY	NAME ADDRESS	CURR: CURR: CURR:	PFKS: I=HELP,

Figure C.11. Input / Output Customer Profile 1 Screen.

CUSTOMER PROFILE 2 SCREEN

14.00 27/09/1998	CURR:	
	00.	ОНЛ
IMPORT	CUSTOMER PROFILE 2 CUSTOMER ID : FIN-PRCNT : STATEMENT FREQUENCY : STATEMENT FREQUENCY : EXPIRY DATE : EXPIRY DATE : EXPIRY DATE : EXPIRY DATE : BDS SPREAD CODE :	5=ESCAPE, 6=EXT, 10=PREV, 11=NEXT, 12=WHO
IM	CUSTO!	
BKK METROPOLITAN BANK INT'L BANKING DEPARTMENT	TELEPHONE NO. TAX ID. CONTACT PERSON COUNTRY OF RESIDENCE: ZERO VALUE DATE (Y/N): A.R.M ID INSURANCE COVER: IMPORT (Y/N): IMPORT (Y/N): COMMISSION - FACTOR PERCENT BDS CUSTOMER TYPE: TYPE OF FLOATING RATE: COMMENTS:	PFKS: I=HELP, 2=SEARCH, 3=MSG,

Figure C.12. Input / Output Customer Profile 2 Screen.

LIMIT CUSTOMERS SCREEN

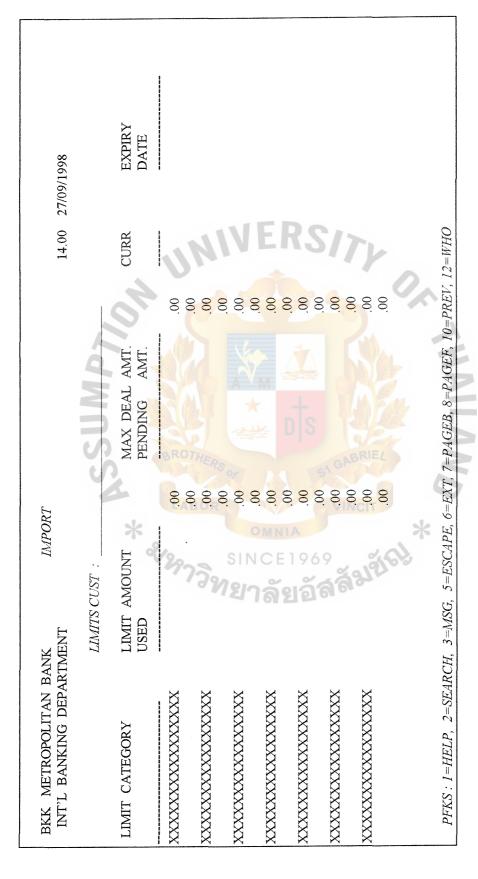


Figure C.13. Output Limit Customer Screen.

RATE MANAGEMENT SCREEN

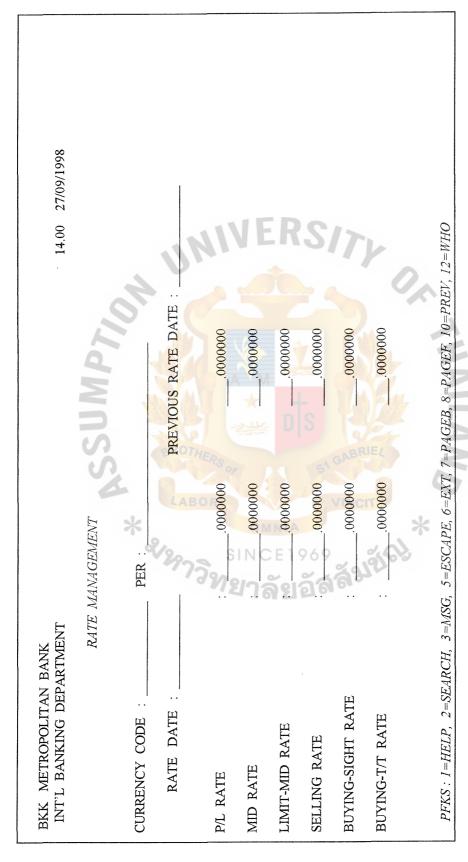


Figure C.14. Input / Output Rate File Screen.



DEAL STEPS

Brief general descriptions of deal steps for Import module are given below:

ISSUANCE (ISS): Establishes the initial terms of the deal.

AMENDMENT (AMD): Changes the initial deal data established

in the released Issuance step.

PAYMENT (PAY): In sight settlements, records and requests

the payment amount from the customer.

ACTUAL PAYMENT (APA): In sight settlements, records the customer

payment and transfer funds to the beneficiary.

ACCEPTANCE (ACP): In time settlements, records and requests

Acceptance of the draft amount by the customer.

ACTUAL ACCEPTANCE (AAC): In time settlements, records the

customer's acceptance of the draft and notifies the

Remitting Bank.

PAYMENT OF ACCEPTANCE (POA): In time settlements, records the customer's

payment of the acceptance draft.

MISCELLANEOUS (MSC): Processes other deal activities which are

either not part of another step or part of a step that

has already been released.

DATA GROUPS

A Data Group is a collection of data logically related to an aspect of a deal.

Data Group

Data Group Description

INTERNAL CONTROL DATA

Administrative and control data describing the

relationship between the bank and its customer.

OPERATIONAL DATE

Operational data defining the deal according to

data received from the applicant. Within this

option are special screens defining the Amount,

Currency, Documents and Terms applicable to the

deal, the Parties, and additional Parties involved.

The Finance option controls the granting and

repayment of loans.

DEBITS & CREDITS the accounting system's sub-ledger. All deal-

related invoices are prepared through this option.

Commissions, rates of exchange, etc., are

calculated, and all movements of money

throughout the deal can be followed. Debits and

credits are entered automatically or manually.

Access to the text and correspondence composer

for all deal-related correspondence, both local and

overseas. Correspondence may be added

manually, but most is sent automatically at the

appropriate deal step by IMEX. This option

displays the number of copies, destination and

method of dispatch of correspondence and texts,

FINANCE

TEXT

St. Gabriel's Library

deal specific information may be added through special paragraphs and special terms. A merchandise description, unlimited in length, may also be maintained.

DEAL IDENTIFICATION SCREEN

<u>Field explanation</u>

CUSTOMER ID Customer's identification code.

MANDATORY for initial deal creation.

Customer file.

N/A displays the customer's name and address.

Customer file.

CUST REF NO. Customer's reference for the deal.

MANDATORY

A single line of text under this field displays

Special Instructions associated with this customer,

as entered in the Customer File. If no special

instructions are entered, the line remains blank.

OUR L/C NO Deal number which is system generated to Create

mode. Afterwards it is typed in by the user.

DESC. Displays the description of the deal if opened

previously.

STATUS This field is blank when a deal is being created.

Otherwise it displays the step status, which may be

one

INTERNAL CONTROL DATA

Field Field explanation

DEAL DESCRIPTION Brief, free text description of the deal to facilitate

deal identification in the future.

L / C TYPE Type of letter of credit, (ordinary, Back to Back,

etc.). L/C Type Table

PREADVICE (Y/N) Indicates whether a Preadvice is to be issued for

the deal.

LINK TO DEAL NO. If this deal is linked to another deal, then the

number of the "linked to " deal is entered here and

the TYPE OF LINK field is MANDATORY.

TYPE OF LINK

Type of link (code) between the two deals i.e.

Shipping Guarantee, etc. Link Type Table

LC / AMD SENT BY Customer's instruction on the method of sending

correspondence abroad (e.g. Airmail, SWIFT).

Transmit via Table

DOCS RECEIVED VIA Method by which documents are to be received

from abroad (e.g. airmail, courier). Transmit via

Table

ADVISING BANK LC Deal number assigned by the advising bank to the

deal.

CUSTOMER INSTRUCTIONS Two lines of free text for entering the customer's

special instructions

OPERATIONAL DATA SCREEN

Field Field explanation

L/C AMOUNT Letter of Credit amount.

CURR Currency of the L/C amount.

CONFIRM (Y/N) Specifies whether the Letter of Credit amount of

any part of it is confirmed (y) or not (n)

AMOUNT TERMS Code indicating the terms governing variations in

the deal amount. Amount Terms Table

VARY AMOUNT

The amount by which the deal may vary from the

Letter of Credit.

OR % The percentage amount by which the deal amount

may vary from the Letter of Credit.

COUNTRY Country (code) with which the deal is being

transacted. Country Table

CITY Name of the city within the above-mentioned

country.

GOODS DESC. Displays a brief description of the deal as entered

in the Internal Control Data screen. May be

changed

ORIGIN Country of origin of the goods. Country Table

AVAILABLE WITH The Nominated bank according to ICC

regulations. Available with Table

SETTLEMENT BY Method of Settlement. Method of Settlement Table

DRAFT DRAWN ON Specifies on which party the draft will be drawn.

Draft Drawn on Table

SIGHT Is the settlement by Sight, Time or Installments.

Sight Table

TENOR DAYS

Number of days from the DRAFT AFTER event

for deferred payment.

DRAFT AFTER Code of the event for beginning the tenor days

counting. Draft After Table

OR DATE Date of maturity.

EFFECTIVE DATE

Date when the deal becomes effective.

EXPIRY DATE Date when the deal expires.

EXPIRY COUNTRY Location of the expiration of the letter of credit.

Country Table

PLACE City within the country of expiration.

DAYS OF PRESENTATION Numbers of days for presentation of documents.

INCOTERM Specify according to which price base the deal is

calculated. Incoterms Table

TRANSPORTATION TYPE Method of shipment of goods. Transportation

Type Table

FIRST SHIPMENT DATE Earliest date for shipment.

LAST SHIPMENT DATE

Last date for shipment.

FROM Port from which the goods are transported.

TO Port to which the goods are transported.

PARTIES SCREEN

Field Field explanation

ID of Party.

EXT Extension of Party.

DEBITS AND CREDIT SCREEN

Field

Field explanation

ID

ID code of debit / credit. Debit/Credit Table

DESC.

Short description of the debit / credit transaction is

displayed. Debit/Credit Table

AMOUNT

Amount of the transaction.

CURR

Currency code in which the amount is specified.

Currency Table

PARTY DR

ID of Party being debited. Parties table

PARTY CR

ID of Party being credited. Parties Table

WHEN

Event at which the transaction will be activated.

When Table

FROM STEP

The system displays the deal step and number in

which the debit/credit was taken.

SETTLED AT

If the WHEN code is N (now), after release the

system displays the deal step and number on

which the debit/credit transaction was effected

(dependent on the event specified in the WHEN

field). If the WHEN code is L (later), then after

deal is released the code must be manually

changed and the entries will be generated.

FINANCE SCREEN

Field <u>Field explanation</u>

Finance Definition fields

TYPE Type of loan. Displayed from the Deal finances

screen, but may be changed here. Finance Type

Table

CURRENCY Loan Currency. Displayed from the Deal Finances

screen, but may be changed here. Currency Table

CORRECT FOR The finance details including interest calculations

are displayed correctly for this date.

STATUS Finance status as of the CORRECT FOR date; e.g.

Regular.

CAUSE If STATUS is Irregular, this field reflects the

cause of the irregularity. If there are a number of

Causes, this is the last Cause reported is displayed.

STATUS DATE Date of change of STATUS/CAUSE.

EFF DATE Effective Date of the Finance. Default is system

date, but it is possible to enter another date.

PERIOD Number of days for which the loan is given.

DUE DATE Loan maturity date (EFF-DATE + PERIOD)

Finance Data Fields

ENROUTE Number of Interest Exemption Days

PRINCIPAL AMOUNT Principal loan amount.

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PRINCIPAL CONVERTED

Amount of the Principal Converted to a different

finance. This field is only relevant at the time of

the conversion of the loan.

PRINCIPAL PAID

Amount of the Principal already paid.

PRINCIPAL BALANCE

Balance for a given date is calculated as follows:

PRINCIPAL BALANCE = PRINCIPAL AMOUNT -

PRINCIPAL PAYMENTS - PRINCIPAL

CONVERSIONS

INTEREST AMOUNT

Accrued interest, up to correct for date.

INTEREST UPFRONT

Amount of the interest Advance.

INTEREST DAYS

Number of days of the Upfront. The user may either enter the Upfront amount or the number of days. In the latter case, the system calculates the Upfront amount from the number of days and enters this amount in the Upfront field. This calculation is based upon the interest parameters entered below.

INTEREST CONVERTED

Amount of the interest converted to a different finance. This field is only relevant at the time of the presentation of the loan.

INTEREST PAID

Amount of the interest already paid.

INTEREST BALANCE

The interest balance for a given date is calculated

as follows.

INTEREST BALANCE = ACCRUED INTEREST –

UPFRONT -INTEREST PAYMENTS - INTEREST

CONVERSIONS

REF NO

Loan Reference Number.

TOTALS

Total paid amount and balance to be paid are

displayed.

DEBIT AT MATURITY (Y/N)

Whether the loan is to be automatically debited

(by a daily process) on the due date.

If Y, then the following two fields are completed.

Yes/No Table.

BY

Type of account. Accounts Type Table

ACC NO

Account number

LIEU-COMM (Y/N)

Whether to charge a commission in lieu of the

standard commission when THE DEBIT AT

MATURITY field is Y and no foreign currency

exchange is involved.

FORWARD CONTRACT NO

Forward Contract Number when the loan is

converted to another loan or booking number in

case of a currency exchange.

PAYMENT CURR

Currency in which the loan will be charged on the

due date. When the loan is paid or when the By

and ACC NO fields are filled in Currency Table

RATE

Type of exchange rate. If the payment currency

and the finance currency differ. Exchange Rate

Table.

CURRENT INT TYPE

Fixed or Floating. The interest type current on the

correct for date. Interest Type Table

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UP TO

Date on which the fixed interest type will be replaced by a floating interest type. The default is the DUE DATE. The UP TO date must be less than or equal to the DUE DATE. If it is LESS than the due date, a warning appears on the screen.

FUND

Cost of fund interest rate.

MARGIN TYPE Indicates whether the margin is:

P (Positive)-Regular interest to the cost of fund.

N (Negative)-Discount to the cost of fund.

Z (Zero) In this case a non reported margin does

not mean a missing value, but an explicit user

request for a zero margin. Margin Type Table

Fixed margin interest rate according to type of

deal

FLOATING TYPE

MARGIN

Type of floating interest rate. Default is defined in the customer or bank's rates profile. Floating Rate

Type Table

PENALTIES

Two penalty fields that appear only in display

mode for a finance that has reached past due status

EFF DATE = RELEASE If the date on which the loan is to become

effective is the Release Date of the step. A loan

may be entered on the date, or may be effective

retroactively on a date earlier than the Release

Date. In these cases, EFF DATE is not equal to the

Release Date. Yes/NO Table

DATE (Y/N)

LOGIN SCREEN

Field Field explanation

BANK ID Operating Bank code number

DEPARTMENT User's department number

Department Table.

USER ID User's identification code. (If Fast Login is

implemented, this field is protected.)

PASSWORD User's password for verification of user's ID. (If

Fast Login is implemented, this field is protected.)

HELP LANGUAGE Code selecting the language of the HELP screens

Default: E (English) Language Table

NEW PASSWORD New user-specified password. When the system

specifies a new password to be entered, or when

the user desires to change the password. (If Fast

Login is implemented, this field is protected.)

FUNCTION KEYS

The programmed function (PF) keys available at any one time are listed at the bottom of each system screen. The following is a list of the function keys.

Key	Screen Name	Function
<u>PF1</u>	HELP	Activates the Help function.
PF2	SEARCH	Carries out a search in the appropriate table.
PF3	MSG	Enables the user to receive a more detailed
PF4	RETURN	Description of system messages. Returns from a Help, Search or MSG screen,
11.	ALTORY OF THE PROPERTY OF THE	Back to the screen from where the function was Engaged.
<u>PF5</u>	ESCAPE	Moves to the previous screen or menu.
<u>PF6</u>	EXT	Switching to other systems of the Bank.
<u>PF7</u>	PAGEB	Scroll backwards.
PF8	PAGEF	Scroll forwards.
<u>PF9</u>	FORCE	Allows the user to continue to the next system
	& 2973g	Screen even though data entry on first screen is incomplete, without losing the information entered
		on the current screen. All data entered on the
		FORCE screen must satisfy level 1 error checking
		conditions.
<u>PF10</u>	PREVIOUS	Displays previous screen.
<u>PF11</u>	NEXT	Displays next screen.
<u>PF12</u>	WHO	Displays the department number and user ID of
		the user logged on at the terminal.



REPORT NO. XXXXXXX	XXX	BA]	BANGKOK METROPOLITAN BANK	AN BANK		PAGE NO.	XXX
PROGRAM NO. XXXXXXX	XXX		COMMISSION REPORT)RT		RUN DATE. DD/MM/YYYY	MM/YYYY
DEPT.CODE =XXX			AS AT DD MONTH YYYY	YYYY		RUN TIME. HH:MM:SS	MM:SS
			CCIIME				
DEAL TYPE	PERIOD	DEALS	TOTAL DEAL	TOTAL	TOTAL	TOTAL	TOTAL
		COUNTER	ACCUMULATION	ACTUAL	THEOR.	ACCP	THEOR
		129		COMM.	сомм.	COMM.	COMM
		73	OTA				
LETTER OF CREDIT	CURR YEAR	666	66'666'666'6	66'666'666'6	66'666'666'6	66'666'666'666'6	66'666'666'6
	PREV YEAR	666	66'666'666'6	66'666'666'6	66'666'666'6	66'666'666'666'6	66'666'666'6
GUARANTEES	CURR YEAR 999	666	66'666'666'666'6	66'666'666'6	66'666'666'6	66'666'666'666'6	66'666'666'6
	PREV YEAR 999	666	66'666'666'6	66'666'666'6	66'666'666'6	66'666'666'666'6	66'666'666'6
BILLS FOR COLLECT	CURR YEAR	666	66'666'666'6	66'666'666'6	66'666'666'6	66'666'666'666'6	66'666'666'6
	PREV YEAR	666	66'666'666'666'6	66'666'666'6	66'666'666'6	66'666'666'666'6	66'666'666'6
		181	RIE		L		
TOTAL	CURR MONTH	666 H	66.666,666,666,6	66'666'666'6	66'666'666'6	66'666'666'666'6	66'666'666'6
	CURR YEAR	666	66'666'666'666'6	66'666'666'6	66'666'666'6	66'666'666'666'6	66'666'666'6
	PREV YEAR	666	66'666'666'666'6	66'666'666'6	66'666'666'6	66'666'666'666'6	6,999,999.99

Figure E.1. Commission Report.

REPORT NO. XXXXXXX	BANGKOK METROPOLITAN BANK	PAGE NO. XXXX
PROGRAM NO. XXXXXXX	ACCRU INTEREST BY DETAIL	RUN DATE. DD/MM/YYYY
DEPT.CODE =XXX	AS AT DD MONTH YYYY	RUN TIME. HH:MM:SS
	CCIIMD	
SEQ. DEAL NO. CUST-NAME	EFF-DATE DUE-DATE PER FINNO CUR RATE	ACCRU-INT ACCRU-INT-TH
	FROM-DATE TO-DATE CAL-DAY INT-RATE FIN-BAL	INT-AMT
	EVE-TYPE EVE-DATE EVE-PRI-AMT	EVE-AMT
XXX 999999999 XXXXXXXXXXXX DD/MM/YYYYY	. DD/MM/YYYY DD/MM/YYYYY 999 999 999.999,999,999,999,999,999,999	66'666'666'666 66'666'666
XXX	DD/MM/YYYY DD/MM/YYYYY 999 999 999 999,999,999,999,999,99	66'666'666'666
XXX	XXXX DD/M/YYYY	66`666`666`666 66`666 <mark>`666</mark> `6 <mark>66</mark>
XXX 999999999 XXXXXXXXXX DD/MM/YYYY	C DD/MM/YYYY DD/MM/YYYY 999 999 999 XXX 999,999999 999,999,999	66'666'666'666 66'666'666'666
XXX	DD/MM/YYYY DD/MM/YYYY 999 999.999999 999,999,999	66'666'666'666
XXX	XXXXX DD/MM/YYYY	66'666'666 66'666'666'666
TOT	TOTAL ACCRU-INT-THB PER PAGE	66'666'666

Figure E.2. Accrued Interest by Detail.

XXX	WYYY	SS:I									
PAGE NO.	RUN DATE, DD/MM/YYYY	RUN TIME. HH:MM:SS		CREDIT AMOUNT	66'666'666	66'666'666'666	66'666'666'666	66'666'666'666	66`666'666'666		66'666'666'666
LITAN BANK	T REPORT	VTH YYYY	IDS	DEBIT AMOUNT	66'666'666'666	66'666'666'666	66'666'666'666	66.6 <mark>66,666,666</mark>	66'666'666'666	177	66'666'666'666
BANGKOK METROPOLITAN BANK	PROOF SHEET REPORT	AS AT DD MONTH YYYY	MINO	NAME OF ACCOUNT	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	VIN	** GRAND AMOUNT **
REPORT NO. XXXXXXX	PROGRAM NO. XXXXXXX	DEPT.CODE =XXX		ACCOUNT NO.	XXX 66666666	XX 66666666	XX 66666666	XX 66666666	XX 66666666		** GRAN

Figure E.3. Proof Sheet Report.

REPORT NO. XXXXXXXX	BANGKOK M	BANGKOK METROPOLITAN BANK	ANK		PAGE NO.	XXX
PROGRAM NO. XXXXXXXX	DEALS LIST	DEALS LIST PER DEPARTMENT			RUN DATE	RUN DATE. DD/MM/YYYY
DEPT.CODE =XXX	AS AT DI	AS AT DD MONTH YYYY			RUN TIME.	RUN TIME. HH:MM:SS
DEAL-NO DEAL-DESC RELEASE-DATE CUST-ID CUST-NAME	AMOUNT CURR	STEP MAIL RELEASE-NAME	JIL SWIFT	E	TELEX	OPEN-DATE
666'6 XXXXXXXXX X-XXXXXX-XX-XXX	XXX 66.999,999,999	666XXX	66	66	66	6666/66/66
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	XXXXXXXXXX	N			
66.999,999,999,999,999,999,999	XXX 66.999,999	666XXX	66	66	66	6666/66/66
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	XXXXXXXXXXX	EI			
666'6 XXXXXXXXX X-XXXXXXX-XX-XXX	XXX 66.666.666.6666	666XXX	66	66	66	6666/66/66
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	XXXXXXXXXX	17			
666'6 XXXXXXXXX X-XXXXXXX-XX-XXX	XXX 66.999,999,999	666XXX	66	66	66	6666/66/66
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	CXXXXXXXXX	XXXXXXXXXXX				
	LAND	THAI				

Figure E.4. Deals List per Department.

Bangkok Metropolitan Bank Public Company Limited

TAX ID		
	RECEIPT DEBIT ADVICE	
		DATE :
TO :	OUR	REF :
	BILL	AMOUNT :
	NIVERS/	Le
BENEFICIARY :		0
0	DEBIT ADVICE (IMPORT DIVISION	V)
WE HAVE PASSED THE	FOLLOWIN DEBIT ENTRY (IES):	
PARTICULARS	ORIGINAL CCY & AMOUNT	RATE
******	SETTLE CCY & AMOUNT ************************************	FC NO.
S	BROTE AR	
	THEROOF ST GAP	
	LABOR	T
*	OMNIA	*
	SINCE 1969	ALC!
	र्य । स्थान	
B/R NO. T/R NO		
T/R NO. INT. FROM DUE		
	DOLUTAN DANIZ	
FOR BANGKOK METRO	POLITAN BANK	
_	RECEIVED BY	
AUTHORIZED SIGN	NATURE (S)	

Figure E.5. Receipt / Debit Advice.

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