



Operating Lease Support System Phase-2 Project for



Functional Specification FC.AD.2.7 Monitor Historical Maintenance of Unit

Revision 2.0

PT. Berlian Sistem Informasi

KTB Annex Bld. 4th Floor, Jl. Jend. A. Yani. Pulomas,
Tel. +62 21 4786 7575 (Hunting) Fax. +62 21 4714964 www.bsi.co.id

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

Document Control

Author	Dimas Oktariantanto
File Name	TM15404A-FSP-FC.AD.2.7_Monitor Historical Maintenance of Unit_Rev 2.0
Path	\OPRLEASE-P2\Deliverable Based-2\Working\04.Design\04.02 Functional Spesification\TM15404A-FSP-FC.AD.2.7_Monitor Historical Maintenance of Unit_Rev 2.0.docx
Number of Pages	21

Revision History

Date	Revision	Description	Author
23/12/2015	0.0	Initial Creation	Dimas Oktariantanto
04/01/2016	0.1	QCO Review : - Revise Distribution List and Document Approval	Dimas Oktariantanto
12/01/2016	1.0	1 st Baseline	Dimas Oktariantanto
07/06/2016	1.1	Adding changes at development	Dimas Oktariantanto
14/06/2016	2.0	2 nd Baseline	Grand Zah Putra

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

Distribution List

Name	Organization	Roles
Mr. Yutaro Sanada	Dipo Star Finance, PT	DSF Project Director
Mr. Manabu Kishimoto	Dipo Star Finance, PT	DSF Project Director
Mr. Shinya Tsukamoto	Dipo Star Finance, PT	DSF IT Advisor
Mr. Ahmad Fikri	Dipo Star Finance, PT	DSF IT Advisor
Mr. Abdul Somad	Dipo Star Finance, PT	DSF Biz. Operation Leader
Mr. Roby Wijaya	Dipo Star Finance, PT	DSF PMO
Mr. Mukhlis Ibrahim	Dipo Star Finance, PT	DSF IT Operation Leader
Mr. Delta Riangga	Dipo Star Finance, PT	DSF Key User
Mr. Mochamad Idris	Dipo Star Finance, PT	DSF Key User
Mr. Jufi Iqbal	Dipo Star Finance, PT	DSF Key User
Mr. Reza Renika	Dipo Star Finance, PT	DSF Key User
Mrs. Herni Hembang	Dipo Star Finance, PT	DSF Key User
Mrs. Olivia Setiawan	Dipo Star Finance, PT	DSF Key User
Mr. Junaidi Didy	Dipo Star Finance, PT	DSF Key User
Mr. Dedi Supriyadi	Dipo Star Finance, PT	DSF Key User
Mrs. Elke Hilviana	Dipo Star Finance, PT	DSF Key User
Mr. Daiki Kamada	Berlian Sistem Informasi, PT	BSI Project Director
Mr. Yoshinori Kawahara	Berlian Sistem Informasi, PT	BSI IT Advisor
Mr. Satoshi Koibuchi	Berlian Sistem Informasi, PT	BSI IT Advisor
Mr. Grand Zah Putra	Berlian Sistem Informasi, PT	BSI Project Manager
Mr. Raymond	Berlian Sistem Informasi, PT	BSI Technical Leader
Mr. Dimas Oktariantio	Berlian Sistem Informasi, PT	BSI Business Analyst

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

Document Approval

By signing this document I acknowledge I have read the document and give the Project Management Team approval to proceed.

Role	Name	Signature	Date
DSF Project Director	Mr. Yutaro Sanada		
DSF IT Advisor	Mr. Shinya Tsukamoto		
DSF IT Advisor	Mr. Ahmad Fikri		
DSF Project Manager	Mr. Abdul Somad		
DSF PMO	Mr. Roby Wijaya		
BSI Project Director	Mr. Daiki Kamada		
BSI Project Manager	Mr. Grand Zah Putra		
BSI Technical Leader	Mr. Raymond		
BSI Business Analyst	Mr. Dimas Oktariantanto		

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

TABLE OF CONTENTS

DOCUMENT CONTROL	2
REVISION HISTORY	2
DISTRIBUTION LIST.....	3
DOCUMENT APPROVAL	4
1 INTRODUCTION	6
1.1 PURPOSE.....	6
1.2 SCOPE	6
1.3 DEFINITIONS, ACRONYMS, AND ABBREVIATIONS	6
1.4 REFERENCES	6
2 CONFIGURATION	6
3 PROCESS SPECIFICATION: AD.2.7 MONITOR HISTORICAL OF UNIT	7
3.1 PURPOSE.....	7
3.2 SCREEN OF CONFIGURATION ACCESS	7
3.3 SCREEN FUNCTIONALITY.....	7
3.4 OPERATION FLOW	7
3.5 SCREEN DETAIL.....	9
3.6 SCREEN FUNCTIONALITY.....	9
3.7 OPERATION DESCRIPTION.....	12
3.8 DATA STRUCTURE	16
3.9 SCREEN ITEM LIST	18
3.10 ENTITY RELATIONSHIP DIAGRAM.....	20

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

Functional Specification

1 Introduction

1.1 Purpose

Functional Specification is a document to describe the detail of functions system which includes screen design and logic formula. This document will be used for system development.

1.2 Scope

Functional Specification Document contains screen design, screen functionality, process flow, and data structure of AD.2.7 Monitor Historical of Unit.

Here are the scope for AD.2.7 Monitor Historical of Unit :

1. AD.2.7.1 View List of Maintenance Agreement

To view List Maintenance of Unit based on Agreement, Purchase Order, and Unit Management.

2. AD.2.7.2 Detail History

To view detail history of unit.

3. AD.2.7.3 Print

To Print History of Unit.

4. AD.2.7.4 Update

To Update Cost History of Unit

Output from this function is :

1. RPT.AD.2.3. Historical Maintenance Unit

1.3 Definitions, Acronyms, and Abbreviations

List of definitions that are used in this document :

- a. WO = Work Order.
- b. MU = Maintenance Unit.
- c. OPL = Operating Lease.
- d. BAST = Berita Acara Serah Terima / Handover Report.

1.4 References

This functional specification document refers to **"To Be Design" BSI Unit/ Vehicle Maintenance Process**, module:

1. AD.2.7 Monitor Historical Maintenance of Unit.

2 Configuration

N/A

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

3 Process Specification: AD.2.7 Monitor Historical of Unit

3.1 Purpose

Screen of Monitor Historical of Unit will be used by PIC Maintenance to view history maintenance of unit. This Screen Function consist of View list of maintenance agreement, Detail History, and print Historical of Unit.

This function covered by “**Monitor Historical Maintenance of Unit**” screen.

3.2 Screen of Configuration Access

Here are the access rights for “**Monitor Historical Maintenance of Unit**” screen users:

<i>User</i>	<i>Create</i>	<i>Read</i>	<i>Update</i>	<i>Authorization</i>
PIC Maintenance	-	V	V	V
Admin	-	V	V	V

Note:

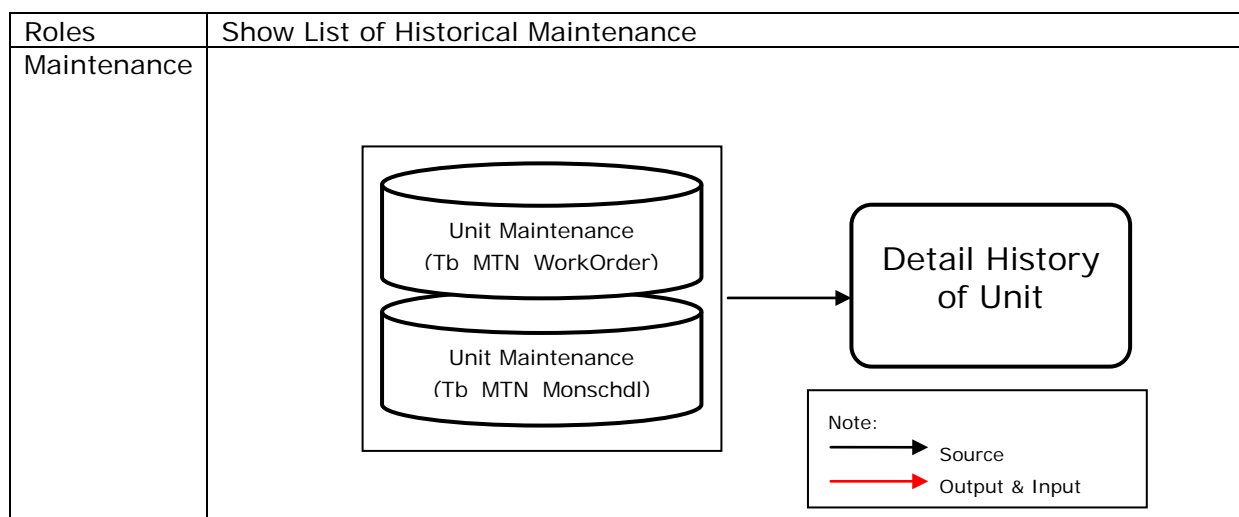
1. Create: related to create Historical Maintenance.
2. Read: related to read display list of view list of maintenance agreement.
3. Update: related to update historical maintenance
4. Authorization: related to access screen.

3.3 Screen Functionality

- a. View List of Maintenance Agreement.
- b. Detail History.
- c. Print Historical of Unit.
- d. Update Historical of Unit.

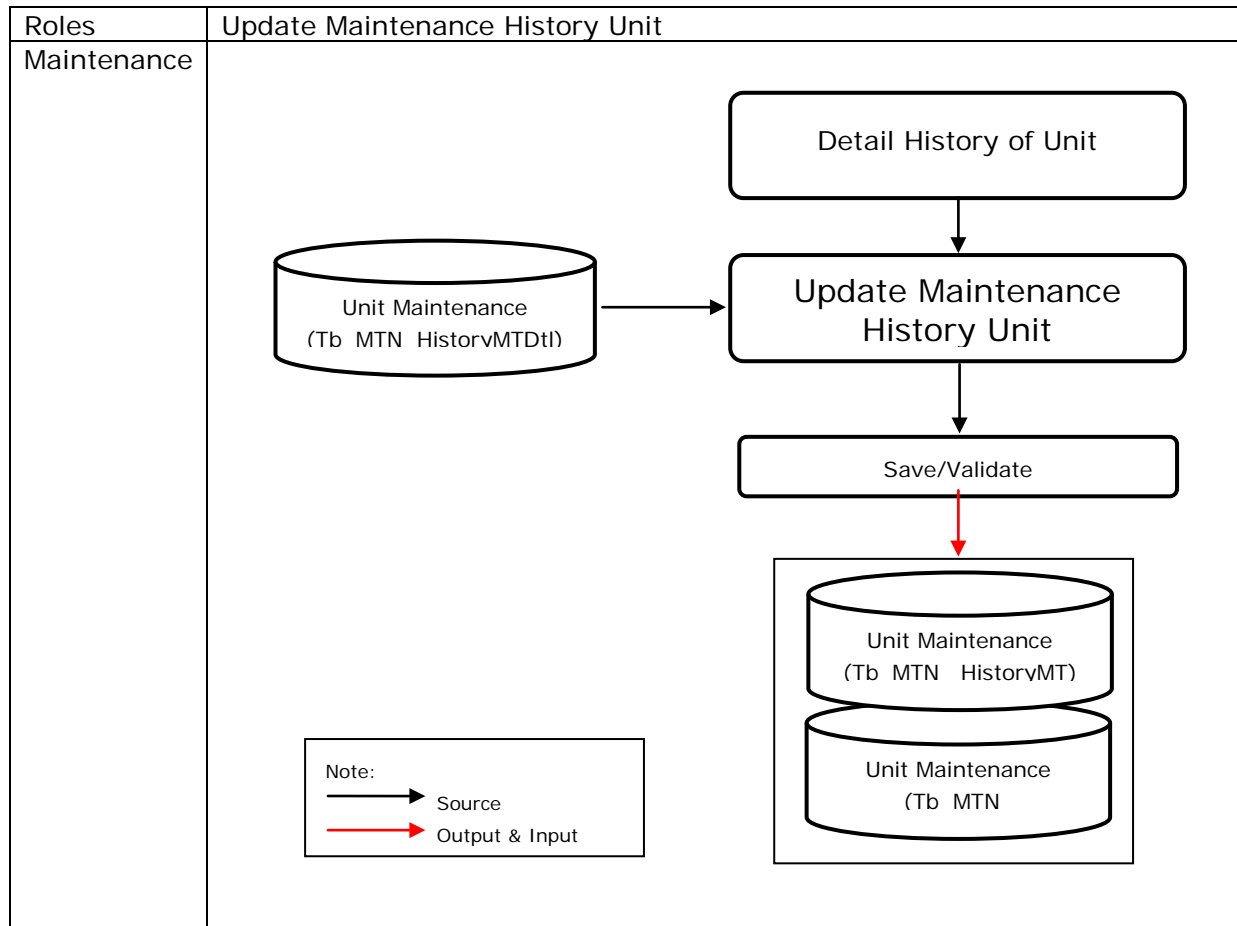
3.4 Operation Flow

Below is operation flow for Monitoring and print List of Maintenance Agreement to **To Be Design Document Unit/ Vehicle Maintenance**, AD.2.7. Monitor Historical Maintenance of Unit:

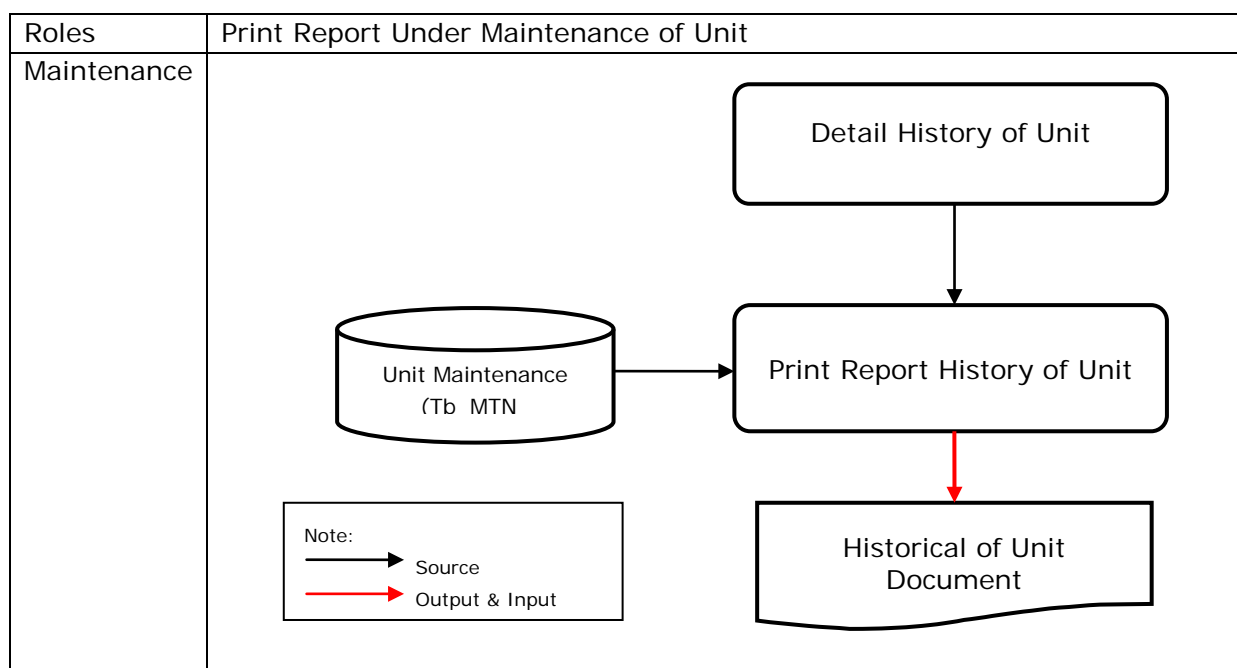


Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

Below is operation flow of **'Update Historical Maintenance of Unit'** which is used to print historical maintenance of unit by PIC Maintenance:



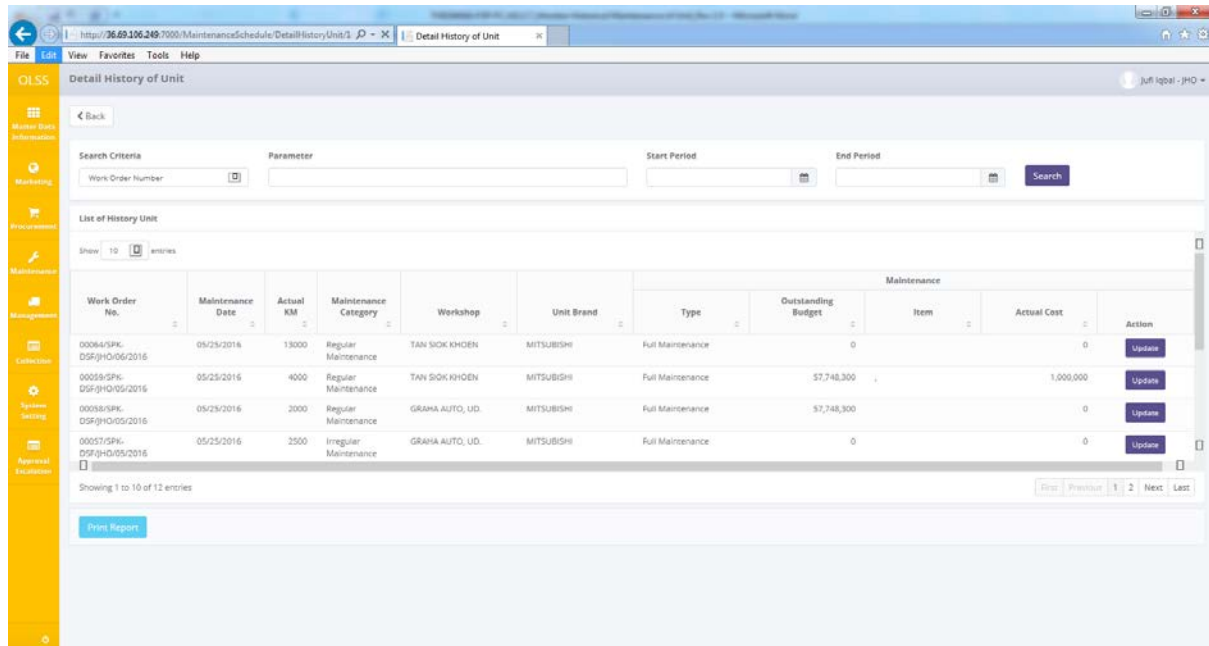
Below is operation flow of **'Print Historical Maintenance of Unit'** which is used to Print historical maintenance of unit by PIC Maintenance:



Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

3.5 Screen Detail

- Screen design of 'Historical Maintenance of Unit', which will be used as an initial screen for view Monitor Historical Maintenance of Unit. This screen will show historical each unit



Screen 1. Detail History of Unit

3.6 Screen Functionality

Here are the screen functions from each component in Monitor Historical Maintenance of Unit screen:

No	Component	Name	Function
Header			
1.	Label	Detail History of Unit	List of History Maintenance of Unit.
Search Criteria			
2.	Drop down box	Search Criteria	To Select Category for searching maintenance data
3.	Text Field	Parameter	To input parameter for searching maintenance data
4.	Date Picker	Start Maintenance Date	To input start maintenance date based on update date when submit maintenance data
5.	Date Picker	End Maintenance Date	To input end maintenance date based on update date when submit maintenance Data
6.	Button	Search	To search maintenance data based on selected criteria
Monitor Historical Maintenance of Unit			
7.	Drop down box	Show Entry	To select number of row data that will be displayed in one screen (paging)

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

8.	Button	Sort	To sort data on table list of Maintenance, ascending and descending
9.	Label	Work Order Number	To display Work Order Number
10.	Label	Maintenance Date	To display Maintenance Date.
11.	Label	Actual KM	To display KM of Unit
12.	Label	Maintenance Category	To display Service type
13.	Label	Workshop	To display Workshop
14.	Label	Unit Brand	To display Unit Brand
15.	Label	Maintenance	To display maintenance
16.	Label	Type	To display maintenance Type
17.	Label	Outstanding Budget	To display maintenance Outstanding budget
18.	Label	Item	To display Maintenance Item
19.	Label	Actual Cost	To display Maintenance Actual Cost
20.	Label	Action	To display Action
21.	Button	Update	To Update Maintenance Item and Cost.
22.	Label	Showing N to M of X entries	Displaying Maintenance data sequence and the total of maintenance data
23.	Link	First Page	To display first entries page of maintenance data
24.	Link	Previous Page	To display the previous entries page of maintenance data
25.	Link	Page Number	Displaying the Page Number of the List
26.	Link	Next Page	To display the next entries page of maintenance data
27.	Link	Last Page	To show the last page entry
Footer			
28.	Button	Print Report	To Print the report from list of maintenance agreement

Here are the screen functions from each component in Pop Up Under Maintenance tab :

No	Component	Name	Function
Header			
1.	Label	Update Maintenance History Unit	To Update Maintenance History Unit
Update Maintenance Agreement			

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2


2.	Button	Code	To choose Item parts by item code
3.	Label	Name	To Display Name Item
4.	Field Text	Actual Cost	To Input Actual Cost
5.	Field Text	Quantity	To Input quantity
6.	Field Text	PPN	To Input PPN
7.	Field Text	PPH	To Input PPH
8.	Checkbox	Service	To check item if include on service.
9.	Button	Delete	To Delete Item.
10.	CheckBox	Billed to Customer	To check maintenance billed to customer.
Footer			
11.	Button	Add New Item	To add new item
12.	Button	Save	To Save Item
13.	Button	Validate	To Validate Item
14.	Button	Close	To Close pop up menu

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2



3.7 Operation Description

No.	Operation Name	Description																																																																																																																
1	Initial view Historical Maintenance of Unit	<div>The screen for List of Maintenance Agreement: 1. Component Status;</div> <table><tr><th>Component</th><th>Name/Caption</th><th>Status</th><th>Remark</th></tr><tr><td>Label</td><td>Detail History of Unit</td><td>Not Active</td><td></td></tr><tr><td>Drop down</td><td>Search Criteria</td><td>Active</td><td></td></tr><tr><td>Field Text</td><td>Parameter</td><td>Active</td><td></td></tr><tr><td>Date Picker</td><td>Start Period</td><td>Active</td><td></td></tr><tr><td>Date Picker</td><td>End Period</td><td>Active</td><td></td></tr><tr><td>Button</td><td>Search</td><td>Active</td><td></td></tr><tr><td>Drop down box</td><td>Show Entries</td><td>Active</td><td>As initial by default number of show entries list that will be display is 10</td></tr><tr><td>Button</td><td>Sort</td><td>Active</td><td></td></tr><tr><td>Label</td><td>Work Order Number</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Maintenance Date</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Actual KM</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Maintenance Category</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>WorkShop</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Unit Brand</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Maintenance</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Type</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Outstanding Budget</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Item</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Actual Cost</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Action</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Showing N to M of X entries</td><td>Not Active</td><td></td></tr><tr><td>Link</td><td>First Page</td><td>Active</td><td>Active depending on the current entry</td></tr><tr><td>Link</td><td>Previous Page</td><td>Active</td><td>Active depending on the current entry</td></tr><tr><td>Link</td><td>Page Number</td><td>Not Active</td><td></td></tr><tr><td>Link</td><td>Next Page</td><td>Active</td><td>Active depending on the current entry</td></tr><tr><td>Link</td><td>Last Page</td><td>Active</td><td>Active depending on the current entry</td></tr><tr><td>Button</td><td>Print Report</td><td>Active</td><td></td></tr></table>	Component	Name/Caption	Status	Remark	Label	Detail History of Unit	Not Active		Drop down	Search Criteria	Active		Field Text	Parameter	Active		Date Picker	Start Period	Active		Date Picker	End Period	Active		Button	Search	Active		Drop down box	Show Entries	Active	As initial by default number of show entries list that will be display is 10	Button	Sort	Active		Label	Work Order Number	Not Active		Label	Maintenance Date	Not Active		Label	Actual KM	Not Active		Label	Maintenance Category	Not Active		Label	WorkShop	Not Active		Label	Unit Brand	Not Active		Label	Maintenance	Not Active		Label	Type	Not Active		Label	Outstanding Budget	Not Active		Label	Item	Not Active		Label	Actual Cost	Not Active		Label	Action	Not Active		Label	Showing N to M of X entries	Not Active		Link	First Page	Active	Active depending on the current entry	Link	Previous Page	Active	Active depending on the current entry	Link	Page Number	Not Active		Link	Next Page	Active	Active depending on the current entry	Link	Last Page	Active	Active depending on the current entry	Button	Print Report	Active	
Component	Name/Caption	Status	Remark																																																																																																															
Label	Detail History of Unit	Not Active																																																																																																																
Drop down	Search Criteria	Active																																																																																																																
Field Text	Parameter	Active																																																																																																																
Date Picker	Start Period	Active																																																																																																																
Date Picker	End Period	Active																																																																																																																
Button	Search	Active																																																																																																																
Drop down box	Show Entries	Active	As initial by default number of show entries list that will be display is 10																																																																																																															
Button	Sort	Active																																																																																																																
Label	Work Order Number	Not Active																																																																																																																
Label	Maintenance Date	Not Active																																																																																																																
Label	Actual KM	Not Active																																																																																																																
Label	Maintenance Category	Not Active																																																																																																																
Label	WorkShop	Not Active																																																																																																																
Label	Unit Brand	Not Active																																																																																																																
Label	Maintenance	Not Active																																																																																																																
Label	Type	Not Active																																																																																																																
Label	Outstanding Budget	Not Active																																																																																																																
Label	Item	Not Active																																																																																																																
Label	Actual Cost	Not Active																																																																																																																
Label	Action	Not Active																																																																																																																
Label	Showing N to M of X entries	Not Active																																																																																																																
Link	First Page	Active	Active depending on the current entry																																																																																																															
Link	Previous Page	Active	Active depending on the current entry																																																																																																															
Link	Page Number	Not Active																																																																																																																
Link	Next Page	Active	Active depending on the current entry																																																																																																															
Link	Last Page	Active	Active depending on the current entry																																																																																																															
Button	Print Report	Active																																																																																																																
2	Display List Historical	<div>Input: 1. Access menu OLSS</div>																																																																																																																

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

	Maintenance of Unit	<div><div><div>2. Select menu Maintenance</div><div>3. Select sub menu view list of maintenance agreement.</div><div>4. Select Field historical to view historical maintenance each unit.</div><div></div><div>5. Select number of show list entries : 10, 25, 50, and 100</div></div><div><div>Process:</div><div><div>1. System will displays data on Detail Historical of Unit based on maintenance date of unit in ascending order.</div><div>2. Data that will be displayed are Historical Maintenance of Unit with based on the Tb_MTN_WorkOrder (WorkOrderNumber), Maintenance (Tb_MTN_Monschdl.MaintenanceCategory, ServiceDate, MaintenanceBudget, Maintenance Cost), and Tb_OPLUnit.</div><div>3. Based on Screen 1. Monitor Historical Maintenance of Unit, informations related to Maintenance Agreement that will be displayed automatically are:<div><div>a. Work Order Number</div><div>b. Maintenance Date</div><div>c. Actual KM</div><div>d. Maintenance Category</div><div>e. Workshop</div><div>f. Unit Brand</div><div>g. Type</div><div>h. Outstanding Budget</div><div>i. Item</div><div>j. Actual Cost.</div></div></div><div>4. System will display data row based on selected show number entries</div></div><div><div>Output:</div><div>1. Display list of all Historical Maintenance Unit based on Maintenance date of unit in ascending order.</div></div><div><div>Alternative:</div><div>N/A</div></div></div></div>														
3	Searching List Historical Maintenance of Unit	<div><div><div>Input:</div><div><div>1. Access menu OLSS</div><div>2. Select menu Maintenance</div><div>3. Select sub menu view list of maintenance agreement</div><div>4. Select detail on field historical</div><div>5. Select Search Criteria Drop down boxand click among these:</div></div><div><table><tr><th>Criteria Searching</th><th>Constraint Input</th></tr><tr><td>Work Order Number</td><td>varchar</td></tr><tr><td>Actual KM</td><td>Number</td></tr><tr><td>Maintenance Category</td><td>varchar</td></tr><tr><td>WorkShop</td><td>varchar</td></tr><tr><td>Unit Brand</td><td>varchar</td></tr><tr><td>Maintenance Type</td><td>Varchar</td></tr></table></div><div><div>Constraint :</div><div>a. Search criteria are generated from Tb_OPL_SearchCriteria mapping</div></div><div>6. Select Start and End date period to filter based on the Maintenance Date.</div></div></div>	Criteria Searching	Constraint Input	Work Order Number	varchar	Actual KM	Number	Maintenance Category	varchar	WorkShop	varchar	Unit Brand	varchar	Maintenance Type	Varchar
Criteria Searching	Constraint Input															
Work Order Number	varchar															
Actual KM	Number															
Maintenance Category	varchar															
WorkShop	varchar															
Unit Brand	varchar															
Maintenance Type	Varchar															



Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

		 <p>Constraint :</p> <ol style="list-style-type: none"> End Period can not be less than Start Period (the End Period will be locked for the date before Start Date). Start Period can not be wless than End Period (the Start Period will be locked for the date after End Date) <ol style="list-style-type: none"> Click Search button  Select number of show list entries : 10, 25, 50, and 100 <p><u>Process:</u></p> <ol style="list-style-type: none"> User can only choose one search criteria to be searched When user click search button, system will displays data on List of Maintenance Agreement based on the selected criteria searching. <p><u>Formula:</u></p> <ol style="list-style-type: none"> 2.1. If user input Criteria Searching, Criteria Searching param, Start Date, and End Date period, system displays data based on selected criteria searching on selected range end contract, Last Service, Schedule Date. 2.2. If user input both of Criteria Searching, Criteria Searching param and Start Date, system displays data based on selected criteria searching start from selected Schedule Date until the latest Schedule date. 2.3. If user input both of Criteria Searching, Criteria Searching param and End Date, system displays data based on selected criteria searching start from the oldest Schedule date until selected update date. 2.4. If user input Criteria Searching and its param only, system displays all of the list of maintenance agreement data based on the criteria searching only. <ol style="list-style-type: none"> Data that will be displayed are data based on the TB Monitor Historical (TB_MTN_HistoryMT) Based on Screen 1. List Historical Maintenance of Unit, informations related to Maintenance Agreement that will be displayed automatically are: <ol style="list-style-type: none"> Work Order Number Maintenance Date Actual KM Maintenance Category Workshop Unit Brand Type Outstanding Budget Item Actual Cost System will display data row based on selected show number entries <p><u>Output:</u></p> <ol style="list-style-type: none"> Display list of all Maintenance Agreement data based on the search result <p><u>Alternative:</u></p> <p>N/A</p>
4	Print Report	<p><u>Input:</u></p> <ol style="list-style-type: none"> Access menu OLSS Select menu Maintenance Select sub menu view list of maintenance agreement Select Field History and click Detail button Select Search Criteria Drop down box and click among these:

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

		<table><tr><th>Criteria Searching</th><th>Constraint Input</th></tr><tr><td>Work Order Number</td><td>varchar</td></tr><tr><td>Actual KM</td><td>Number</td></tr><tr><td>Maintenance Category</td><td>varchar</td></tr><tr><td>WorkShop</td><td>varchar</td></tr><tr><td>Unit Brand</td><td>varchar</td></tr><tr><td>Maintenance Type</td><td>Varchar</td></tr></table> <p>constraint :</p> <p>a. Search criteria are generated from Tb_OPL_SearchCriteria mapping.</p> <p>6. Select Start and End date period to filter based on the Schedule Date.</p> <div><div>Search Criteria</div><div>Parameter</div><div>Start Maintenance Date</div><div>End Maintenance Date</div><div>Work Order Number</div><div></div><div></div><div></div><div>Search</div></div> <p><u>Constraint:</u></p> <p>a. End Period can not be less than Start Period (the End Period will be locked for the date before Start Date)</p> <p>b. Start Period can not be less than End Period (the Start Period will be locked for the date after End Date)</p> <p>7. Click Search button <div>Search</div> .</p> <p>8. Click Print Report button</p> <p><u>Process:</u></p> <p>1. User can view list of Historical Maintenance data which will be printed, in list of historical maintenance search result list.</p> <p>2. System will display list Historical Maintenance of Unit in Ms.Excel with file name as below format: List of Maintenance Agreement Report_mmddyyyy_hhmm Then User can convert that file into PDF format and save file into selected path Note : mmddyyyy → month,day,year when report printed hhmm → hours, minute when report printed</p> <p>3. Informations related to Historical Maintenance that will be printed are:</p> <p>u. Work Order Number</p> <p>v. Maintenance Date</p> <p>w. KM</p> <p>x. Service Type</p> <p>y. Workshop</p> <p>z. Unit Type</p> <p>aa. Maintenance Type</p> <p>bb. Maintenance Cost</p> <p>cc. Maintenance Budget</p> <p>4. Historical Maintenance data will be sorted based on Maintenance date service at Historical Maintenance Report</p> <p><u>Output:</u></p> <p>1. Printed list of all Historical Maintenance data based on the Historical Maintenance search result</p> <p><u>Alternative:</u> N/A</p>	Criteria Searching	Constraint Input	Work Order Number	varchar	Actual KM	Number	Maintenance Category	varchar	WorkShop	varchar	Unit Brand	varchar	Maintenance Type	Varchar
Criteria Searching	Constraint Input															
Work Order Number	varchar															
Actual KM	Number															
Maintenance Category	varchar															
WorkShop	varchar															
Unit Brand	varchar															
Maintenance Type	Varchar															
5.	Update Actual Cost	Input:														

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

Maintenance	<ol style="list-style-type: none"> 1. Access Menu OLSS 2. Select Menu Maintenance 3. Select sub menu view list of maintenance agreement 4. Select field history and click detail button 5. Select and click button update to update Actual Cost and item for maintenance.  <p>Constraint</p> <ol style="list-style-type: none"> a. Pop up shown after PIC Maintenance click update then PIC Maintenance can Update Cost and Select item from invoice.  <ol style="list-style-type: none"> b. The PIC can choose item that has been serviced from invoice. Fill quantity and actual cost, and also input PPN PPH, if this item categorized as service the PIC must checklist IsService. c. PIC Maintenance can add new item to add item. d. If this maintenance happen because customer PIC Maintenance must check Billed to Customer, so billing can get the data. <ol style="list-style-type: none"> 6. Click Save button to save the Cost and Item and then click validate to lock the cost <p>Constraint</p> <ol style="list-style-type: none"> a. After click validate button update will be disable.
-------------	---

3.8 Data Structure

TB_MTN_HistoryMT

Field Name	Data Type	Length	Source	Remarks	Nullable	Mandatory
IdHistoryMT	Int	n/a	Tb_MTN_HistoryMT.IdHistoryMT	Primary key	No	No
IdTb_MTN_Monschl	Int	n/a	Tb_MTN_Monschdl.IdTb_MTN_Monschdl	Foreign key	No	Yes
IdTb_OPL_Unit	Int	n/a	Tb_OPL_Unit.IdTb_OPL_Unit	Foreign key	No	Yes
Agreement Number	Varchar	50	Tb_OPLAgreement.AgreementNumber	Foreign key	No	Yes
WONum	Varchar	100	Tb_MTN_WorkOrder.WorkOrderNum	Foreign key Where <i>Tb_MTN_HistoryMT.IdWONum = Tb_MTN_WorkOrder.WorkNumber</i>	No	Yes
MTDate	Datetime	n/a	Tb_MTN_Monschdl.Schedule	Foreign key Where <i>Tb_MTN_HistoryMT.MTDate = Tb_MTN_Monschdl.Schedule</i>	No	Yes

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

Status	Int	n/a	Tb_OPLStatus		No	Yes
ActualKM	Decimal	18.2	Tb_MTN_Monschdl. ActualKM	Foreign key Where Tb_MTN_HistoryMT.Act ualKM = Tb_MTN_Monschdl.Actu alKM	No	Yes
Maintenanc eCategory	Varchar	20	Tb_MTN_Monsch dl.MaintenanceC ategory	Foreign key Where Tb_MTN_HistoryMT.Mai ntenanceCategory = Tb_MTN_Monschdl.Main tenanceCategory	No	Yes
Workshop	Varchar	100	Tb_MTN_Monsch dl.Workshop	Foreign key Where Tb_MTN_HistoryMT.Wor kshop = Tb_MTN_Monschdl.Wor kshop	No	Yes
UnitType	Varchar	50	Tb_MTN_Monschdl. UnitType	Foreign key Where Tb_MTNHistoryMT.UnitT ype = Tb_MTN_MonschdlUnitT ype	No	No
MTType	Varchar	30	Tb_MTN_Monschdl. MaintenanceType	Foreign key Where Tb_MTN_HistoryMT.MTT ype = Tb_MTN_Monschdl.Main tenanceType	No	Yes
MTCost	Decimal	18.3	Tb_MTN_HistoryMT Dtl.ActualAmount	Foreign key Where Tb_MTN_HistoryMT.MTC ost = Tb_MTN_HistoryMTDtl.A ctualAmount	No	Yes
MTBudget	Decimal	18.3	Tb_MTN_Monschdl. MaintenanceBudge t		No	Yes
MTActualCo st	Decimal	18.2	Tb_MTN_HistoryMT Dtl.ActualAmount	Foreign key Where Tb_MTN_HistoryMT.MTA ctualCost = Tb_MTN_HistoryMTDtl.A ctualAmount	Yes	Yes
MTOustandi ngBudget	Decimal	18.3	Tb_MTN_MTOustan dingBudget	Formula	Yes	Yes
SubTotal	Decimal	18.3	Tb_MTNHistoryMT Dtl.ItemCost	Formula	Yes	Yes
PPNTax	Decimal	18.3	Tb_MTNHistoryMT Dtl.ItemCost.Ppn	Formula	Yes	Yes
PPHTax	Decimal	18.3	Tb_MTNHistoryMT Dtl.Pph	Formula	Yes	Yes
IsBilled	Boolean	n/a			No	Yes

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

IsBilledToCustomer	Boolean	n/a			Yes	Yes
IsDelete	Boolean	n/a			No	Yes
CreatedBy	Varchar	50		Sys.Currentuser	No	Yes
CreatedDate	Datetime	n/a		Sys.Currentdate	No	Yes
LastModifiedBy	Varchar	50		Sys.Currentuser	Yes	Yes
LastModifiedDate	Datetime	n/a		Sys.Currentdate	Yes	Yes

TB_MTN_HistoryMTDtl

Field Name	Data Type	Length	Source	Remarks	Nullable	Mandatory
IdTb_MTN_HistoryMTDtl	Int	n/a	Tb_MTN_HistoryMTDtl	Primary key	No	Yes
IdTb_MTN_HistoryMT	Int	n/a	Tb_MTN_HistoryMT	Foreign Key	No	Yes
IdMaintenanceItem	Int	n/a	Tb_MTN_WorkOrder		Yes	No
ItemCost	Decimal	18.2	Tb_MTN_HistoryMTDtl		Yes	Yes
Quantity	Int	n/a	Tb_MTN_HistoryMTDtl		Yes	Yes
Ppn	Decimal	18.2	Tb_MTN_HistoryMTDtl		Yes	Yes
Pph	Decimal	18.2	Tb_MTN_HistoryMTDtl		Yes	Yes
ActualAmount	Nchar	10	Tb_MTN_HistoryMTDtl		Yes	Yes
IsService	Boolean	n/a	Tb_MTN_HistoryMTDtl		No	Yes
IsDelete	Boolean	n/a	Tb_MTN_HistoryMTDtl		No	Yes
RemarksSys	Varchar	100			Yes	Yes
CreatedBy	Varchar	50		Sys.CurrentUser	No	Yes
CreatedDate	Datetime	n/a		Sys.CurrentDate	No	Yes
LastModifiedBy	Varchar	50		Sys.CurrentUser	No	Yes
LastModifiedDate	Datetime	n/a		Sys.CurrentDate	No	Yes

3.9 Screen Item List

RPT.AD.2.3 Report Historical Maintenance Unit.

No.	Content	Description	Source	Remarks
1	Historical	Default Label	Static	

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

	Maintenance of Unit			
2.	Period	Period Monthly Report	Based on selected Start Date and End Date that already select by user when print report	<i>Format display on report: MM/dd/YYYY</i>
3.	Page	Number of Report Page	Automatically count by number of page	<i>&[page] of &[total page]</i>
4.	Printed By	Printed by	Sys.Username	<i>User Name is the one who login to system</i>
5.	Printed Date	Printed Date	Use date at server when button print Report is clicked	<i>Format display on report: MM/dd/YYYY</i>
6.	Police Number	Police Number Unit	Tb_OPL_Unit	
7.	Work Order Number	Work Order Number	TB_MTN_HistoryMT.WONum	
8.	Maintenance Date	Maintenance Date	TB_MTN_HistoryMT.MTDate	
9.	Actual KM	Actual KM	TB_MTN_HistoryMT.ActualKM	
10.	Maintenance Category	Maintenance Category	TB_MTN_HistoryMT.MaintenanceCategory	
11.	WorkShop	Work Shop	TB_MTN_HistoryMT.WorkShop	
12.	Unit Brand	Unit Brand	TB_MTN_HistoryMT.UnitBrand	
13.	Type	Maintenance Type	TB_MTN_HistoryMT.MTType	
14.	Outstanding Budget	Outstanding Budget	TB_MTN_HistoryMT.MTOustandingBudget	
15.	Item	Maintenance Item	TB_MTN_HistoryMT.Dtl.IdMaintenanceItem	
16.	Actual Cost	Actual Cost Invoice	Tb_MTN_HistoryMT.ActualCost	

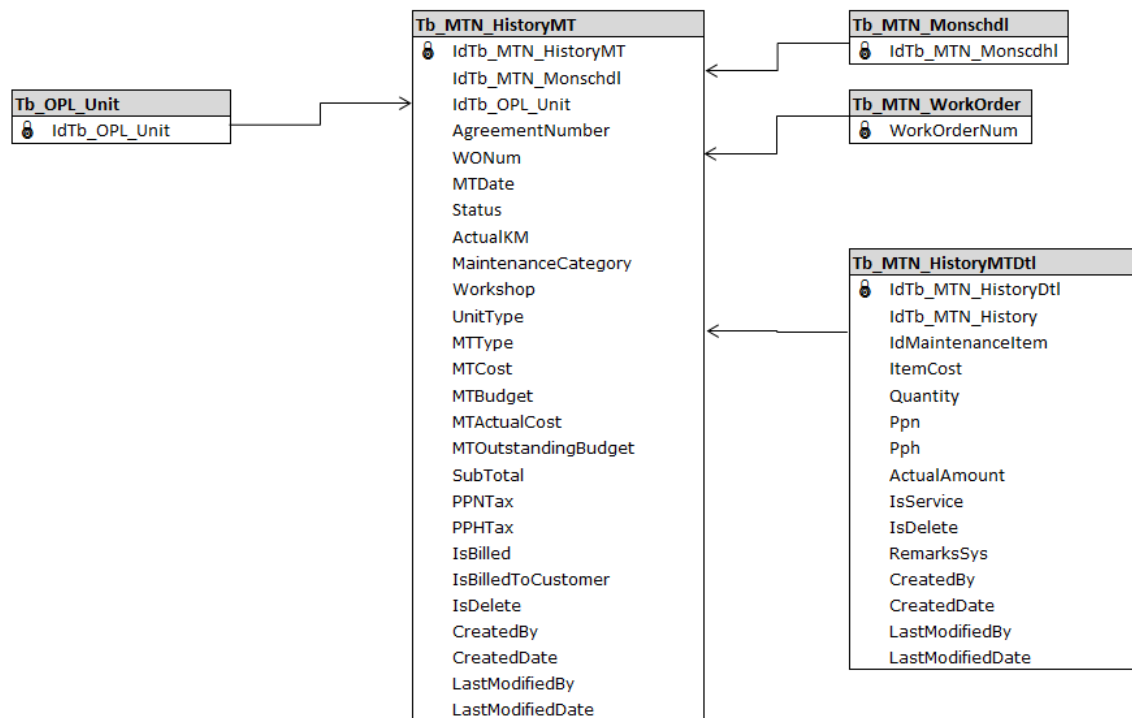
Historical Maintenance of Unit

Page 1 of 1

1	Period	Police Number	B 1000 OPL							Printed By	Jufi Iqbal	3
2	Order									Printed Date	6/9/2016 12:21:00 PM	
6	Maintenance Date	Actual KM	Maintenance Category	Workshop	Unit Brand	Type	Outstanding Budget	Item	Actual Cost			
	00040/SPK-DSF/JHO/05/25/2016	13000	Irregular Maintenance	GRAHA AUTO. UD.	MITSUBISHI	Full Maintenance	58,300	ARM, TIMING BELT	436,700			
	00047/SPK-DSF/JHO/05/25/2016	2000	Regular Maintenance	GRAHA AUTO. UD.	MITSUBISHI	Full Maintenance	59,245,000	ADAPTER, CRANK A	50,000			
	00054/SPK-DSF/JHO/05/25/2016	13000	Regular Maintenance	TAN SIOK KHOEN	MITSUBISHI	Full Maintenance	0		0			
	00057/SPK-DSF/JHO/05/25/2016	2500	Irregular Maintenance	GRAHA AUTO. UD.	MITSUBISHI	Full Maintenance	0		0			
	00058/SPK-DSF/JHO/05/25/2016	2000	Regular Maintenance	GRAHA AUTO. UD.	MITSUBISHI	Full Maintenance	57,748,300	ADJUSTER, TIMING	0			
	00059/SPK-DSF/JHO/05/25/2016	4000	Regular Maintenance	TAN SIOK KHOEN	MITSUBISHI	Full Maintenance	57,748,300	ADAPTER, CRANK A	1,000,000			
	00064/SPK-DSF/JHO/05/25/2016	13000	Regular Maintenance	TAN SIOK KHOEN	MITSUBISHI	Full Maintenance	0		0			
	00038/SPK-DSF/JHO/05/25/2016	13000	Regular Maintenance	GRAHA AUTO. UD.	MITSUBISHI	Full Maintenance	59,370,000	ABSORBER, ADJUS	180,000			
	00039/SPK-DSF/JHO/05/25/2016	13000	Regular Maintenance	GRAHA AUTO. UD.	MITSUBISHI	Full Maintenance	59,600,000	ABSORBER, ADJUS	1,500,000			
	00049/SPK-DSF/JHO/05/25/2016	13000	Irregular Maintenance	GRAHA AUTO. UD.	MITSUBISHI	Full Maintenance	59,245,000	ABSORBER, ADJUS	75,000			
	00051/SPK-DSF/JHO/05/25/2016	13000	Irregular Maintenance	TAN SIOK KHOEN	MITSUBISHI	Full Maintenance	58,748,300	ARM, TIMING BELT	210,000			
	00052/SPK-DSF/JHO/05/25/2016	500	Regular Maintenance	GRAHA AUTO. UD.	MITSUBISHI	Full Maintenance	58,748,300	ADJUSTING SCREW	300,000			

Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

3.10 Entity Relationship Diagram



Project Code :	TM15404A
Project Name :	Operating Lease Support System Phase-2

APPENDIX

Configuration Access for Monitor Historical Maintenance of Unit:

User	Branch	Functions					
		Display List	Create	Edit	View	Print Form	Print Report
PIC Maintenance HO/Branch	One	V	V	V	V	V	V
	Area						
	All						
Marketing Officer	One	V			V	V	V
	Area						
	All						
Head of Branch	One	V			V	V	V
	Area						
	All						
Head of Department	One						
	Area						
	All	V			V	V	V
Regional Manager	One						
	Area	V			V	V	V
	All						
Advisor	One						
	Area						
	All	V			V	V	V
Director	One						
	Area						
	All	V			V	V	V
President Director	One						
	Area						
	All	V			V	V	V
Shareholder's Meeting	One						
	Area						
	All	V			V	V	V

Legend:

V = Have the access