



Operating Lease Support System Phase-2 Project

for



Functional Specification FC.AD.2.5 Manage Work Order

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

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Author	Dimas Oktariantanto
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Project Code :	TM15404A
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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

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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		

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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.2.5 Manage Work Order.

Here are the scope for AD.2.5 Monitor Work Order :

1. AD.2.5.1 Create Work Order

To Create Work Order for regular and irregular maintenance.

2. AD.2.5.2 Submit Work Order

To Submit and print work order to get approval. Approval by system and DSF Authorize person can Checked, Approve, Reject, Revise.

3. AD.2.5.4 Edit Work Order

To Edit Work Order if any mistakes Occur.

4. AD.2.5.5 Print Work Order

To Print Work Order.

5. AD.2.5.5 View Work Order

To View Work Order.

Output from this function is :

1. PF.AD.2.1. Work Order

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. PO = Purchase Order.
- e. 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.2.5 Manage Work Order.

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2 Configuration

Here will be described the format of WO document which will be generated when PIC Maintenance click Save as draft button or Submit button. The format of WO number is:

No. WO : 00242/SPK-DSF/JKC/MONTH/YEAR

Description :

- The first 5 digits show the sequence number of the WO document. This number will increments whenever new WO document is created.
- The code 'SPK-DSF', is absolute for WO document.
- The code 'JKC' for DSF Branch Office
- The code 'MONTH' will be substituted by 2 digits of month when the WO document is created.
- The code 'YEAR' will be substituted by 4 digits of year when the WO document is created.

3 Process Specification: AD.2.5 Manage Work Order

3.1 Purpose

Screen of Manage Work Order will be used by PIC Maintenance to manage work order for maintenance of OPL unit. This Screen Function consist of create work order, submit work order, edit work order, and print work order.

This function covered by “**Manage Work Order**” screen. These screen accessed via the main screen

3.2 Screen of Configuration Access

Here are the access rights for “**Manage Work Order**” screen users:

<i>User</i>	<i>Create</i>	<i>Read</i>	<i>Update</i>	<i>Authorization</i>
PIC Maintenance	V	V	V	V
HOD	-	V	-	V
RM	-	V	-	V
Director	-	V	-	V

Legend : V = Have the access

Note:

1. Create: related to create work order.
2. Read: related to read display list of manage work order.
3. Update: edit work order to revise.
4. Authorization. related to access screen.

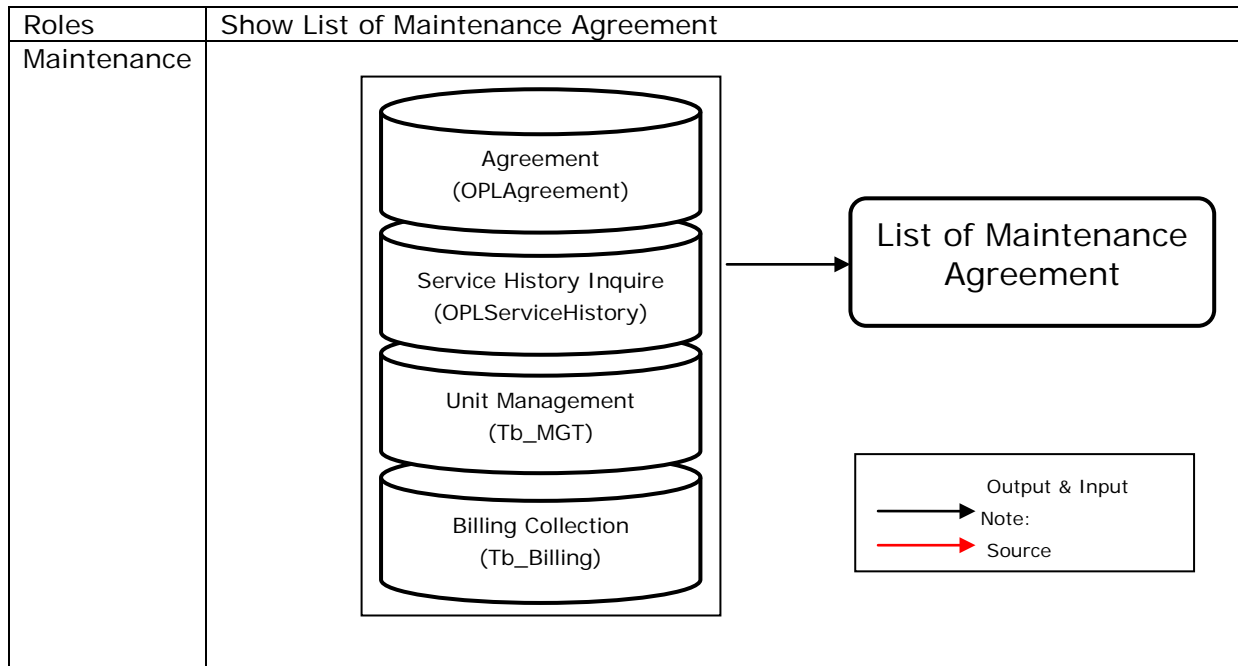
3.3 Screen Functionality

1. Create Work Order.
2. Submit data work order.
3. Edit data work order.
4. Print work order.
5. View List of Work Order.

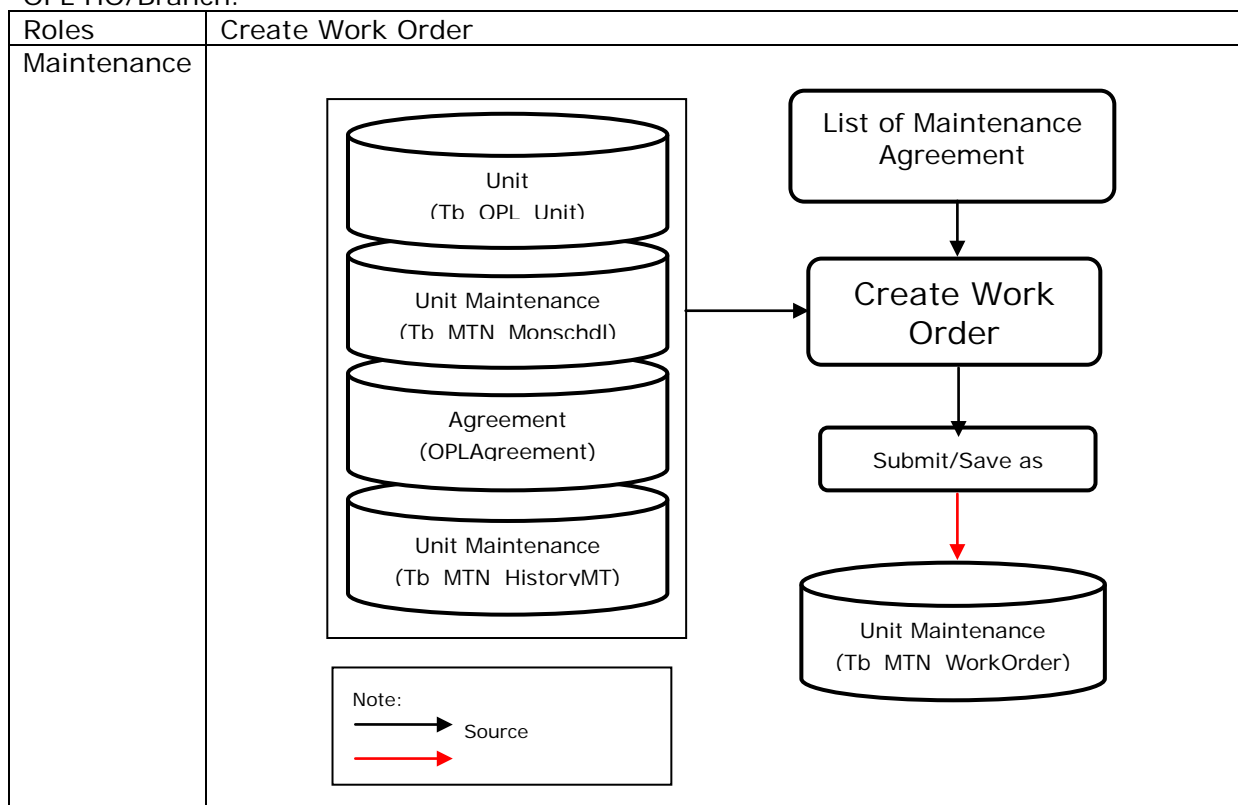
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3.4 Operation Flow

Below is operation flow for Monitoring and print unit preparation process referring to **To Be Design Document Unit/ Vehicle Maintenance**, AD.2.5. Manage Work Order:

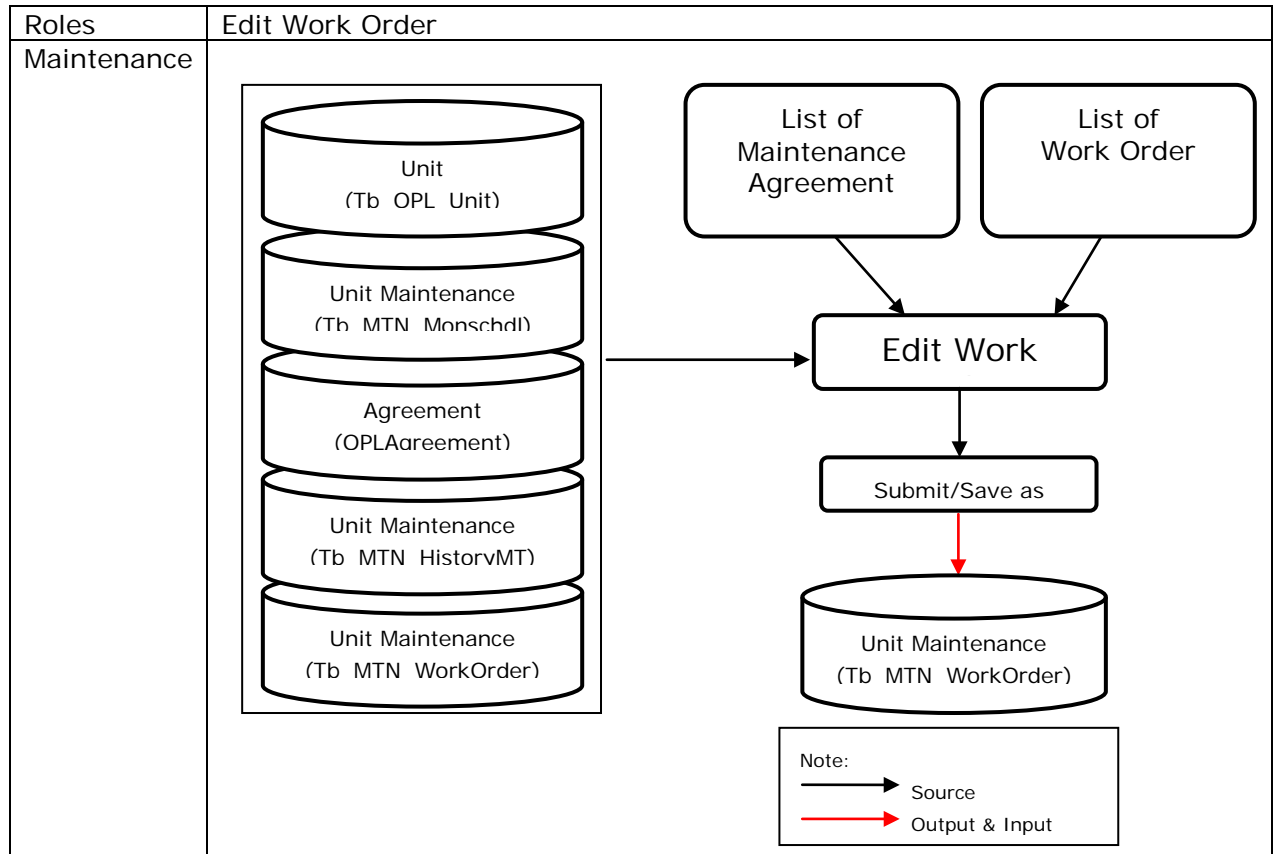


Below is operation flow of **'Create Work Order'** which is used to edit existing PO by PIC OPL HO/Branch:



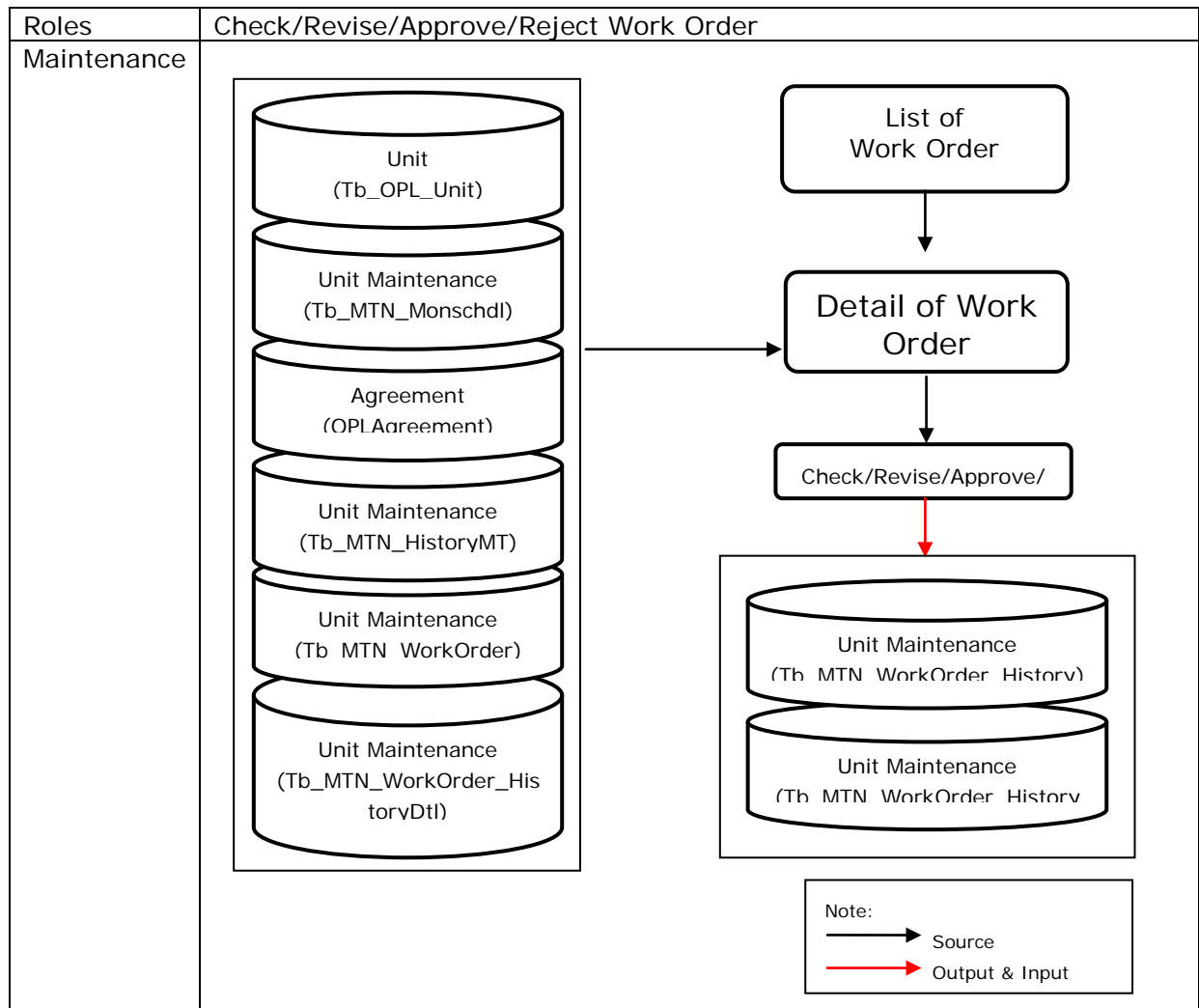
Below is operation flow of **'Edit Work Order'** which is used to edit existing PO by PIC OPL HO/Branch:

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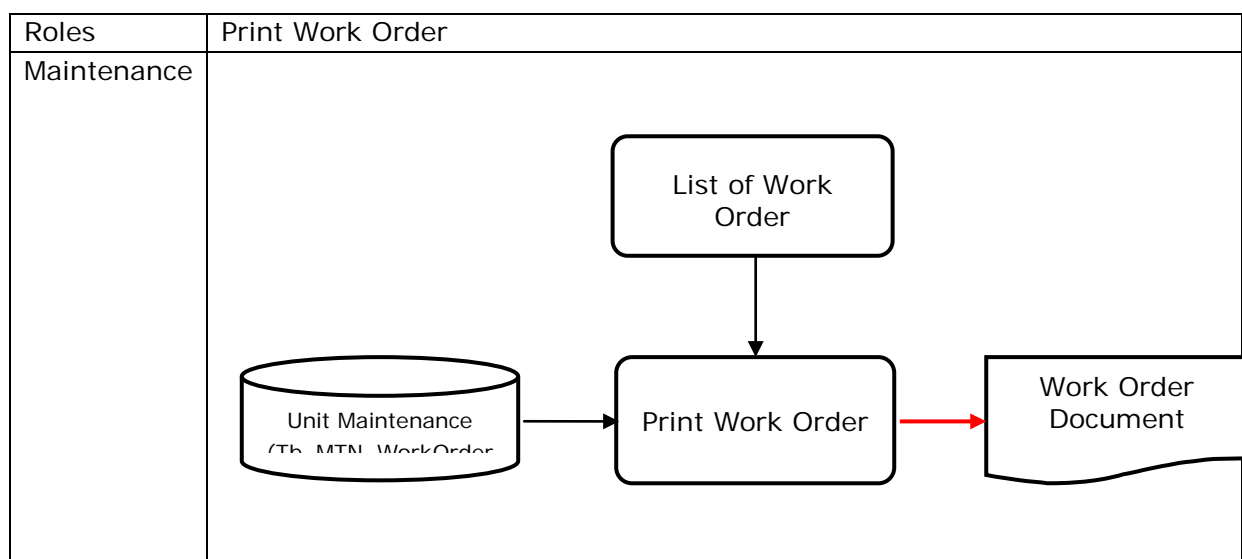


Below is operation flow of **‘Approval of Work Order’** which is used to start approval process from DSF Authorized person:

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Below is operation flow of **'Print Work Order'** which is used to print WO :



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3.5 Screen Detail

- Screen design of 'List of Maintenance Agreement', which will be used as an initial screen for create work order. Work Order create for any condition regular and irregular, PIC Maintenance click button create work order on list of maintenance agreement at field Work Order.

Screen 1. List of Maintenance Agreement

- Screen design of "Manage Work Order", which will be used as second screen for create work order, in this screen PIC Maintenance input price for estimation maintenance cost

Screen 2. Create Work Order

- Screen design of "edit work order", which will be used as screen for edit work order, in this screen PIC Maintenance update the work order.

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Screen 3. Edit Work Order

- Screen "list of WO", which will be used as screen for approval WO and also list Work Order Maintenance of Unit, in this screen PIC Maintenance update status for WO.

Police Number	Work Order No	Maintenance Date	Maintenance Category	Created By	Created Date	Last Approve By	Next Approve By	Status	Action
B 1000 GPL	00065/SPK-DST/940/06/2016	05/25/2016	Insurance Claim	Jufri Iqbal	05/25/2016	YUTARO SANADIA		Approved	Check Reject Approve
B 1000 GPL	00065/SPK-DST/940/06/2016	05/25/2016	Insurance Claim	Abdul Samad	05/25/2016			Check	Check Reject Approve

Screen 4. List of Work Order

- Screen design of 'View WorkOrder', which will display details of the created WO and buttons to revise, check, reject and approve.

Screen 5. Manage Work Order

- Notification after Revise, Check, Approve and Reject PO

Success Number: 00065/SPK-DST/940/06/2016 has been checked.

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Screen 6. Notification After revise, check, approve and reject

3.6 Screen Functionality

Here are the screen functions from each component in Manage Work Order screen:

No	Component	Name	Function
Header			
1.	Label	Work Order	To Display create work order.
2.	Button	Back	To back previous screen.
Create Work Order			
3.	Label	Work Order Number	To display work order number.
4.	Text Field	Work order number	To input work order number by system.
5.	Label	Brand	To display unit brand.
6.	Text Field	Brand	To display unit brand from database.
7.	Label	Police Number	To display Police Number.
8.	Text Field	Police Number	To display Unit Police Number from database.
9.	Label	Chasis Number	To display Chasis Number.
10.	Text Field	Chasis Number	To display Unit Chasis Number from database.
11.	Label	Engine Number	To display Engine Number.
12.	Text Field	Engine Number	To display of Engine Number from database.
13.	Label	Colour / Year	To display Colour / year.
14.	Field Text	Colour / Year	To display Unit of colour / year from database.
15.	Label	KM Service	To display KM Service.
16.	Text Field	KM Service	To display Unit KM Service from database.
17.	Label	Estimate Cost	To display Estimate Cost.
18.	Text Field	Estimate Cost	To input estimate maintenance cost.
19.	Label	Last Service	To display Last Service.
20.	Text Field	Last Service	To display unit last service from database.
21.	Label	Latest KM	To display Latest KM
22.	Text Field	Latest KM	To display Unit Latest KM from database.
23.	Label	Up	To display PIC Workshop Name.

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24.	Text Field	Up	To input name of PIC Workshop.
25.	Label	Phone Number	To display phone number PIC Workshop.
26.	Text Field	Phone Number	To Input phone number PIC Workshop .
27.	Label	Fax Number	To display Fax Number PIC Workshop.
28.	Text Field	Fax Number	To Input Fax Number PIC Workshop
29.	Label	Maintenance Type	To display maintenance type.
30.	Text Field	Maintenance Type	To display maintenance type from database.
31.	Label	Notes	To display Notes.
32.	Text Field	Notes	To Input Notes.
Footer			
31.	Button	Save as Draft	To save work order.
32.	Button	Submit	To submit Work Order.
33.	Button	Checked	Status became Checked.
34.	Button	Approve	To approve WO.
35.	Button	Reject	To Reject WO.
36.	Button	Revise	To Revise WO.


Here are the screen functions from each component in List of Work Order screen:

No	Component	Name	Function
Header			
1.	Label	List of Work Order	To Display create work order.
2.	Button	Back	To back previous screen.
Search Criteria			
3.	Drop down box	Search Criteria	To Select Category for searching maintenance data
4.	Text Field	Parameter	To input parameter for searching maintenance data
5.	Date Picker	Start Service Date	To input start Service Date based on update date when submit maintenance data
6.	Date Picker	End Service Date	To input end Service Date based on update date when submit maintenance Data
7.	Button	Search	To search maintenance data based on selected criteria
List Work Order			

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8.	Label	Police Number	To display Police number.
9.	Label	Work Order No	To display work order number.
10.	Label	Maintenance Date	To display Maintenance Date.
11.	Label	Maintenance Category	To display Maintenance Category.
12.	Label	Created By	To display Created By.
13.	Label	Created Date	To display Created Date.
14.	Label	Last Approve By	To display Last Approved By.
15.	Label	Next Approve By	To display Next Approve By
16.	Label	Status	To display Status Work Order
17.	Label	Action	To display action.
18.	Button	View	To view Work Order.
19.	Button	Edit	To Edit Work Order
20.	Button	Print	To Print Work Order
21.	Label	Showing N to M of X entries	Displaying Maintenance data sequence and the total of maintenance data.
22.	Link	First Page	To display first entries page of maintenance data.
23.	Link	Previous page	To display the previous entries page of maintenance data.
24.	Link	Page Number	Displaying the page number of the list.
25.	Link	Next Page	To display the next entries page of maintenance data.
26.	Link	Last Page	To show the last page of entry.


3.7 Operation Description

No.	Operation Name	Description
2	Display create work order	<p><u>Input:</u></p> <ol style="list-style-type: none"> 1. Access menu OLSS 2. Select menu Maintenance 3. Select sub menu view list of maintenance agreement 4. <u>Select create work order button.</u>  <ol style="list-style-type: none"> 5. Work Order Number filled by automatically 6. Input Estimate Maintenance Cost. Constraint : <ol style="list-style-type: none"> a. Only number can be input 7. Input Phone Number PIC Workshop. 8. Input Fax Number PIC Workshop. 9. Input Notes. 10. Click save as draft if still need to change and click submit if WO no need

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		<p>to change.</p> <p><u>Process:</u></p> <ol style="list-style-type: none">1. System will displays screen to create work order.2. Data that will be displayed on each field are data with maintenance based on the Agreement (OPL_Agreement.ProductBrandname and OPL_Agreement.ProductModelName) (OPL_Agreement.CustomerName) (OPL_Agreement.PhoneNumber) (OPL_Agreement.ProductModelYear), OPL_Agreement.MaintenanceType, EndPeriodDate), Maintenance (Tb_MTN_Monschdl.ActualKM, ServiceDate), Unit Management (TB_OPLUnit).3. When user click save as draft or submit button, system will fill WO Number field automatically. Set WO Number with this Formula: No. WO : 00242/SPK-DSF/JKC/MONTH/YEAR Description :<ul style="list-style-type: none">o The first 4 digits show the sequence number of the WO document. This number will increments whenever new WO document is created.o The code 'SPK-DSF', is absolute for WO document.o The code 'JKC' for DSF Branch Office.o The code 'MONTH' will be substituted by 2 digits of month when the WO document is created.o The code 'YEAR' will be substituted by 4 digits of year when the WO document is created.4. PIC Maintenance input remark for task list or remark for this maintenance. <p><u>Output:</u></p> <ol style="list-style-type: none">1. There's a new row of new created WO data at List of work Order screen which its status is submitted or save as draft.2. Display success message on top of List of WO when WO data has been submitted or save as draft successfully: "Success! WO Number 00242/SPK_DSF/JKC/11/2016 successfully Updated/Saved" <p><u>Alternative:</u> N/A</p>																																												
3	Initial View of Edit Work Order	<p>The Screen for Edit Work Order :</p> <ol style="list-style-type: none">1. Component Status: <table><tr><th>Component</th><th>Name/Caption</th><th>Status</th><th>Remark</th></tr><tr><td>Label</td><td>Create Work Order</td><td>Not Active</td><td></td></tr><tr><td>Button</td><td>Back</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>Field Text</td><td>Work Order Number</td><td>Not Active</td><td>Fill automatic by formula</td></tr><tr><td>Label</td><td>Brand</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Brand</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Police Number</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Police Number</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Chasis Number</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Chasis Number</td><td>Not Active</td><td></td></tr></table>	Component	Name/Caption	Status	Remark	Label	Create Work Order	Not Active		Button	Back	Active		Label	Work Order Number	Not Active		Field Text	Work Order Number	Not Active	Fill automatic by formula	Label	Brand	Not Active		Field Text	Brand	Not Active		Label	Police Number	Not Active		Field Text	Police Number	Not Active		Label	Chasis Number	Not Active		Field Text	Chasis Number	Not Active	
Component	Name/Caption	Status	Remark																																											
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		<table><tr><td>Label</td><td>Engine Number</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Engine Number</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Colour / Year</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Colour / Year</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>KM Service</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>KM Service</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Estimate Cost</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Estimate Cost</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Last Service</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Last Service</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Latest KM</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Latest KM</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Customer Name</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Customer Name</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Phone Number</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Phone Number</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Fax Number</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Fax Number</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Maintenance Type</td><td>Not Active</td><td></td></tr><tr><td>Input Text</td><td>Maintenance Type</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Notes</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Notes</td><td>Not Active</td><td></td></tr><tr><td>Button</td><td>Save Changes</td><td>Active</td><td></td></tr><tr><td>Button</td><td>Submit</td><td>Active</td><td></td></tr></table>	Label	Engine Number	Not Active		Field Text	Engine Number	Not Active		Label	Colour / Year	Not Active		Field Text	Colour / Year	Not Active		Label	KM Service	Not Active		Field Text	KM Service	Not Active		Label	Estimate Cost	Not Active		Field Text	Estimate Cost	Not Active		Label	Last Service	Not Active		Field Text	Last Service	Not Active		Label	Latest KM	Not Active		Field Text	Latest KM	Not Active		Label	Customer Name	Not Active		Field Text	Customer Name	Not Active		Label	Phone Number	Not Active		Field Text	Phone Number	Not Active		Label	Fax Number	Not Active		Field Text	Fax Number	Not Active		Label	Maintenance Type	Not Active		Input Text	Maintenance Type	Not Active		Label	Notes	Not Active		Field Text	Notes	Not Active		Button	Save Changes	Active		Button	Submit	Active	
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Button	Save Changes	Active																																																																																																
Button	Submit	Active																																																																																																
4.	Edit Work Order	<p><u>Input :</u></p> <ol style="list-style-type: none">1. Access menu OLSS2. Select menu Maintenance3. Select sub menu view list of maintenance agreement4. Select Edit work order button. <div></div> <ol style="list-style-type: none">6. Work Order Number filled by automatically7. Input changes for Maintenance Cost. Constraint :<ol style="list-style-type: none">a. Only number can be input. There is a hint will appear "Input With Number".8. Input Changes Phone Number.9. Input changes Remark. Constraint :<ol style="list-style-type: none">a. Remark is for task list maintenance.10. When user already edited the data, user can click save changes button. <div><div>Save Changes</div></div> <ol style="list-style-type: none">11. When edit WO screen has been displayed and user already edited the data, and want to proceed to Work Order Approval Process, PIC Maintenance can click submitted. <div><div>Submit</div></div> <p>Constraint :</p> <ol style="list-style-type: none">a. If Clicked with any of the field still hasn't meet the validation criteria, every notification message for validation below the field will be generated (notification "This field is required" for mandatory field). <p><u>Process:</u></p> <ol style="list-style-type: none">1. System will displays screen to create work order.2. Data that will be displayed on each field are data with maintenance based																																																																																																


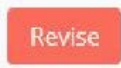
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		<p>on the Agreement (OPL_Agreement.ProductBrandname and OPL_Agreement.ProductModelName) (OPL_Agreement.CustomerName) (OPL_Agreement.PhoneNumber) (OPL_Agreement.ProductModelYear), OPL_Agreement.MaintenanceType, EndPeriodDate), Maintenance (Tb_MTN_Monschdl.ActualKM, ServiceDate), Unit Management (TB_OPLUnit).</p> <p>3. System will display edit WO Screen when user click edit icon at the row of list of maintenance agreement which WO data's status is draft or revised.</p> <p>4. PIC Maintenance input remark for task list or remark for this maintenance.</p> <p><u>Output:</u></p> <p>3. There's a updated data at List of work Order screen which its status is submitted or revised when save changes button is clicked..</p> <p>4. Display success message on top of List of WO when WO data has been submitted or save changes successfully: "Success! WO Number 00242/SPK_DSF/JKC/11/2016 successfully Updated/Saved"</p> <p><u>Alternative:</u> N/A</p>																																																																																				
5	Initial View of List Work Order	<p>The screen for List of work Order:</p> <p>1. Component Status;</p> <table><tr><th>Component</th><th>Name/Caption</th><th>Status</th><th>Remark</th></tr><tr><td>Label</td><td>List Work Order</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>Param</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>Police Number</td><td>Not 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>Maintenance Category</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Created By</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Last Approve By</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Next Approve By</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Status</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Action</td><td>Not Active</td><td></td></tr><tr><td>Button</td><td>View</td><td>Active</td><td></td></tr><tr><td>Button</td><td>Edit</td><td>Active</td><td></td></tr><tr><td>Button</td><td>Print</td><td>Active</td><td></td></tr></table>	Component	Name/Caption	Status	Remark	Label	List Work Order	Not Active		Drop down	Search Criteria	Active		Field Text	Param	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	Police Number	Not Active		Label	Work Order Number	Not Active		Label	Maintenance Date	Not Active		Label	Maintenance Category	Not Active		Label	Created By	Not Active		Label	Last Approve By	Not Active		Label	Next Approve By	Not Active		Label	Status	Not Active		Label	Action	Not Active		Button	View	Active		Button	Edit	Active		Button	Print	Active	
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Button	View	Active																																																																																				
Button	Edit	Active																																																																																				
Button	Print	Active																																																																																				
6	Display List of Work Order	<p><u>Input:</u></p> <p>1. Access menu OLSS</p> <p>2. Select menu Maintenance</p>																																																																																				



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		<div>3. Select sub menu view list of maintenance agreement</div> <div>4. Select Detail Work Order.</div> <div>5. Select number of show list entries : 10, 25, 50, and 100.</div> <div>6. The Authorize person select view to approve work order.</div> <div>Process:</div> <div>1. System will displays data Work Order for the unit. Data sort by the latest WO in ascending order.</div> <div>2. Data that will be displayed are work Order data based on the Asset Management (TB_MGT.PoliceNumber), work order number (TB_MTN.WorkOrder), Maintenance (Tb_MTN_Monschdl.ScheduleDate), Work Order(TB_MTN.WorkOder status).</div> <div>3. Created by, Checked by, Approved by, fill by system.</div> <div>4. The Authorize person can approve, revise, reject, checked by select view button work order.</div> <div>5. Based on Screen 1. List of Work Order, informations related to Maintenance Agreement that will be displayed automatically are:</div> <div>a. Police Number.</div> <div>b. Work Order No.</div> <div>c. Service Date.</div> <div>d. Maintenance Category</div> <div>e. Work Order Status.</div> <div>f. Approval.</div> <div>g. Created By.</div> <div>h. Checked By.</div> <div>i. Action.</div> <div>Output:</div> <div>2. Display list of all Work Order in ascending order.</div> <div>3. Data will be saved to table TB_MTN_WorkOrder.</div> <div>Alternative:</div> <div>N/A</div>																																																																								
7	Initial screen of view Work Order	<div>The screen for View work order:</div> <div>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>Create Work Order</td><td>Not Active</td><td></td></tr><tr><td>Button</td><td>Back</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>Field Text</td><td>Work Order Number</td><td>Not Active</td><td>Fill automatic by formula</td></tr><tr><td>Label</td><td>Brand</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Brand</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Police Number</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Police Number</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Chasis Number</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Chasis Number</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Engine Number</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Engine Number</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Colour / Year</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Colour / Year</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>KM Service</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>KM Service</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Estimate Cost</td><td>Not Active</td><td></td></tr></table>	Component	Name/Caption	Status	Remark	Label	Create Work Order	Not Active		Button	Back	Active		Label	Work Order Number	Not Active		Field Text	Work Order Number	Not Active	Fill automatic by formula	Label	Brand	Not Active		Field Text	Brand	Not Active		Label	Police Number	Not Active		Field Text	Police Number	Not Active		Label	Chasis Number	Not Active		Field Text	Chasis Number	Not Active		Label	Engine Number	Not Active		Field Text	Engine Number	Not Active		Label	Colour / Year	Not Active		Field Text	Colour / Year	Not Active		Label	KM Service	Not Active		Field Text	KM Service	Not Active		Label	Estimate Cost	Not Active	
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		<table><tr><td>Field Text</td><td>Estimate Cost</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Last Service</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Last Service</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Latest KM</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Latest KM</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Customer Name</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Customer Name</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Phone Number</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Phone Number</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Fax Number</td><td>Not Active</td><td></td></tr><tr><td>Field Text</td><td>Fax Number</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Maintenance Type</td><td>Not Active</td><td></td></tr><tr><td>Input Text</td><td>Maintenance Type</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Remark</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>User Name</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Date</td><td>Not Active</td><td></td></tr><tr><td>Label</td><td>Status</td><td>Not Active</td><td></td></tr><tr><td>Text Box</td><td>Note</td><td>Active</td><td></td></tr><tr><td>Button</td><td>Check</td><td>Active</td><td></td></tr><tr><td>Button</td><td>Approve</td><td>Active</td><td></td></tr><tr><td>Button</td><td>Revise</td><td>Active</td><td></td></tr><tr><td>Button</td><td>Reject</td><td>Active</td><td></td></tr></table>	Field Text	Estimate Cost	Not Active		Label	Last Service	Not Active		Field Text	Last Service	Not Active		Label	Latest KM	Not Active		Field Text	Latest KM	Not Active		Label	Customer Name	Not Active		Field Text	Customer Name	Not Active		Label	Phone Number	Not Active		Field Text	Phone Number	Not Active		Label	Fax Number	Not Active		Field Text	Fax Number	Not Active		Label	Maintenance Type	Not Active		Input Text	Maintenance Type	Not Active		Label	Remark	Not Active		Label	User Name	Not Active		Label	Date	Not Active		Label	Status	Not Active		Text Box	Note	Active		Button	Check	Active		Button	Approve	Active		Button	Revise	Active		Button	Reject	Active	
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Button	Check	Active																																																																																								
Button	Approve	Active																																																																																								
Button	Revise	Active																																																																																								
Button	Reject	Active																																																																																								
8	Revise Work Order	<p><u>Input:</u></p> <ol style="list-style-type: none">1. Access menu OLSS2. Hover to menu Maintenance3. Click on list of maintenance4. Click Detail Work Order5. Click View Work Order6. Select the view button at the row of PO which will be revised <div></div> <p><u>Constraint:</u></p> <ol style="list-style-type: none">a. User can only choose one PO to be viewed at one time <ol style="list-style-type: none">7. Put revision message at Note text field8. Click Revise button <div></div> <p><u>Constraint:</u></p> <ol style="list-style-type: none">a. User must insert revision at Note text field to able to click Revise button. <p><u>Process:</u></p> <ol style="list-style-type: none">1. When user click view button, system will displays View work order screen which data is taken from Tb_MTN_WorkOrder:2. System will set Revise button as active when the user who login to the System is DSF Authorized Person based on the Setting Approval Path, FC.C.1.3. Revise button will be enabled when Remarks column has been filled.4. When Revise button is clicked, System will:<ul style="list-style-type: none">• Add value at TB_MTN_ListofWO.WorkOrderStat with Tb_OPL_Status.Id Tb_OPL_Status which Tb_OPL_Status.StatusName = revised.• Add a new Log of WO action to Tb_MTN_WO_History. Data which should be inserted are: User Name, Date and Status																																																																																								



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		<p>(Tb_OPL_Status.StatusName = revised).</p> <ul style="list-style-type: none">System will add a new Log of WO action to Tb_MTN_WO_History. Data which should be inserted are: <table><tr><th>Field Name</th><th>Value</th></tr><tr><td>ProcessId</td><td>New GUID</td></tr><tr><td>OriginalId</td><td>Tb_MTN_ListofWO.IdTb_MTN_ListofWO</td></tr><tr><td>CreatedDate</td><td>Sys.CurrentDate</td></tr><tr><td>CreatedBy</td><td>Sys.CurrentUser</td></tr><tr><td>Action</td><td>Tb_OPL_Status.StatusCode = Revise</td></tr></table> <p><u>Output:</u></p> <ol style="list-style-type: none">Screen 5, Success notification will be displayed when user has clicked Revise button and data has been updated successfully.The revised WO would be shown at List of Work Order screen with status as revised <p><u>Alternative:</u></p> <p>N/A</p>	Field Name	Value	ProcessId	New GUID	OriginalId	Tb_MTN_ListofWO.IdTb_MTN_ListofWO	CreatedDate	Sys.CurrentDate	CreatedBy	Sys.CurrentUser	Action	Tb_OPL_Status.StatusCode = Revise
Field Name	Value													
ProcessId	New GUID													
OriginalId	Tb_MTN_ListofWO.IdTb_MTN_ListofWO													
CreatedDate	Sys.CurrentDate													
CreatedBy	Sys.CurrentUser													
Action	Tb_OPL_Status.StatusCode = Revise													
9	Check Work Order	<p><u>Input:</u></p> <ol style="list-style-type: none">Access menu OLSSHover to menu MaintenanceClick on List of MaintenanceClick Detail Work OrderClick View Work OrderSelect the check button at the row of List work Order which will be checked <div></div> <p><u>Constraint:</u></p> <ol style="list-style-type: none">User can only choose one WO to be viewed at one time <ol style="list-style-type: none">Click Check button <div></div> <p><u>Process:</u></p> <ol style="list-style-type: none">When user click view button, system will displays View work order screen which data is taken from Tb_MTN_WorkOrder.System will set Check button as active when the user who login to the System is DSF Authorize Person, based on the Setting Approval Path, FC.C.1.When Check button is exist, the Approve button will be disappear.When Check button is clicked, System will:<ul style="list-style-type: none">Add value at TB_MTN_ListofWO.WorkOrderStat with Tb_OPL_Status.Id Tb_OPL_Status which Tb_OPL_Status.StatusName = checked.Add a new Log of WO action to Tb_MTN_WO_History. Data which should be inserted are: User Name, Date and Status (Tb_OPL_Status.StatusName = checked).System will add a new Log of WO action to Tb_MTN_WO_History. Data which should be inserted are: <table><tr><th>Field Name</th><th>Value</th></tr><tr><td>ProcessId</td><td>New GUID</td></tr><tr><td>OriginalId</td><td>Tb_MTN_ListofWO.IdTb_MTN_ListofWO</td></tr></table>	Field Name	Value	ProcessId	New GUID	OriginalId	Tb_MTN_ListofWO.IdTb_MTN_ListofWO						
Field Name	Value													
ProcessId	New GUID													
OriginalId	Tb_MTN_ListofWO.IdTb_MTN_ListofWO													


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		<table><tr><td>CreatedDate</td><td>Sys.CurrentDate</td></tr><tr><td>CreatedBy</td><td>Sys.CurrentUser</td></tr><tr><td>Action</td><td>Tb_OPL_Status.StatusCode = Check</td></tr></table> <p><u>Output:</u></p> <p>1. Screen 5, Success notification will be displayed when user has clicked Check button and data has been updated successfully.</p> <p>2. The revised WO would be shown at List of Work Orders with status as checked</p> <p><u>Alternative:</u></p> <p>N/A</p>	CreatedDate	Sys.CurrentDate	CreatedBy	Sys.CurrentUser	Action	Tb_OPL_Status.StatusCode = Check						
CreatedDate	Sys.CurrentDate													
CreatedBy	Sys.CurrentUser													
Action	Tb_OPL_Status.StatusCode = Check													
10	Approve Work Order	<p><u>Input:</u></p> <p>1. Access menu OLSS</p> <p>2. Hover to menu Maintenance</p> <p>3. Click on List of Maintenance</p> <p>4. Click Detail Work Order</p> <p>5. Click View Work Order</p> <p>6. Select the view button at the row of WO which will be approved</p> <div></div> <p><u>Constraint:</u></p> <p>a. User can only choose one PO to be viewed at one time</p> <p>7. Click Approve button</p> <div></div> <p><u>Process:</u></p> <p>1. When user click view button, system will displays View work order screen which data is taken from Tb_MTN_WorkOrder</p> <p>2. System will set Approve button as active when the user who login to the System is DSF Authorized Person, based on the Setting Approval Path, FC.C.1.</p> <p>3. When Approve button is exist, the Check button will be disappear.</p> <p>4. When Approve button is clicked, System will:</p> <ul style="list-style-type: none">• Add value at TB_MTN_ListofWO.WorkOrderStat with Tb_OPL_Status.Id Tb_OPL_Status which Tb_OPL_Status.StatusName = Approved.• Add a new Log of WO action to Tb_MTN_WO_History. Data which should be inserted are: User Name, Date and Status (Tb_OPL_Status.StatusName = Approved).• System will add a new Log of WO action to Tb_MTN_WO_History. Data which should be inserted are: <table><tr><th>Field Name</th><th>Value</th></tr><tr><td>ProcessId</td><td>New GUID</td></tr><tr><td>OriginalId</td><td>Tb_MTN_ListofWO.IdTb_MTN_ListofWO</td></tr><tr><td>CreatedDate</td><td>Sys.CurrentDate</td></tr><tr><td>CreatedBy</td><td>Sys.CurrentUser</td></tr><tr><td>Action</td><td>Tb_OPL_Status.StatusCode = Approve</td></tr></table> <p><u>Output:</u></p> <p>1. Screen 5, Success notification will be displayed when user has clicked Approve button and data has been updated successfully.</p> <p>2. The revised WO would be shown at List of Work Order screen with status</p>	Field Name	Value	ProcessId	New GUID	OriginalId	Tb_MTN_ListofWO.IdTb_MTN_ListofWO	CreatedDate	Sys.CurrentDate	CreatedBy	Sys.CurrentUser	Action	Tb_OPL_Status.StatusCode = Approve
Field Name	Value													
ProcessId	New GUID													
OriginalId	Tb_MTN_ListofWO.IdTb_MTN_ListofWO													
CreatedDate	Sys.CurrentDate													
CreatedBy	Sys.CurrentUser													
Action	Tb_OPL_Status.StatusCode = Approve													

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		<p>as approved</p> <p><u>Alternative:</u> N/A</p>												
11	Reject Work Order	<p><u>Input:</u></p> <ol style="list-style-type: none">1. Access menu OLSS2. Hover to menu Maintenance3. Click on List of Maintenance sub menu4. Click detail work order5. Click view Work Order6. Select the view button at the row of WO which will be rejected <div></div> <p><u>Constraint:</u></p> <ol style="list-style-type: none">a. User can only choose one WO to be viewed at one time <ol style="list-style-type: none">7. Put revision message at Note text field8. Click Reject button <div></div> <p><u>Constraint:</u></p> <ol style="list-style-type: none">a. User must insert revision at Note text field to able to click Reject button. <p><u>Process:</u></p> <ol style="list-style-type: none">1. When user click view button, system will displays View work order screen which data is taken from Tb_MTN_WorkOrder2. System will set Reject button as active when the user who login to the System is DSF Authorized Person based on the Setting Approval Path, FC.C.1.3. Reject button will be enabled when Note column has been filled.4. When Reject button is clicked, System will:<ul style="list-style-type: none">• Add value at Tb_MTN_ListofWO.WorkOrderStat with Tb_OPL_Status.Id Tb_OPL_Status which Tb_OPL_Status.StatusName = Rejected.• Add a new Log of WO action to Tb_MTN_WO_History. Data which should be inserted are: User Name, Date and Status (Tb_OPL_Status.StatusName = Rejected).• System will add a new Log of WO action to Tb_MTN_WO_History. Data which should be inserted are: <table><tr><th>Field Name</th><th>Value</th></tr><tr><td>ProcessId</td><td>New GUID</td></tr><tr><td>OriginalId</td><td>Tb_MTN_ListofWO.IdTb_MTN_ListofWO</td></tr><tr><td>CreatedDate</td><td>Sys.CurrentDate</td></tr><tr><td>CreatedBy</td><td>Sys.CurrentUser</td></tr><tr><td>Action</td><td>Tb_OPL_Status.StatusCode = Approve</td></tr></table> <p><u>Output:</u></p> <ol style="list-style-type: none">1. Screen 5, Success notification will be displayed when user has clicked Reject button and data has been updated successfully.2. The revised PO would be shown at List of Work Order screen with status as rejected	Field Name	Value	ProcessId	New GUID	OriginalId	Tb_MTN_ListofWO.IdTb_MTN_ListofWO	CreatedDate	Sys.CurrentDate	CreatedBy	Sys.CurrentUser	Action	Tb_OPL_Status.StatusCode = Approve
Field Name	Value													
ProcessId	New GUID													
OriginalId	Tb_MTN_ListofWO.IdTb_MTN_ListofWO													
CreatedDate	Sys.CurrentDate													
CreatedBy	Sys.CurrentUser													
Action	Tb_OPL_Status.StatusCode = Approve													

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		<u>Alternative:</u> N/A
12	Print WO	<u>Input :</u> <ol style="list-style-type: none"> 1. Access Menu OLSS. 2. Hover to menu maintenance. 3. Click on List of Maintenance sub menu. 4. Click tab List of Maintenance Agreement. 5. Click button view list of WO 6. Click on print icon at the row of list WO which WO data's status is submitted.  <ol style="list-style-type: none"> 7. Click print button to preview WO data document which will be printed. 8. At print form preview, click print button to print WO data as a hardcopy. <u>Process :</u> <ol style="list-style-type: none"> 1. System will display a preview of WO Document which will be printed. 2. System will convert the WO Data to excel or PDF depends on user choice when user click convert to button. 3. WO will be printed for regular and irregular maintenance based on Maintenance Type. 4. System will print WO data as a hardcopy when user click print button . <u>Output :</u> <ol style="list-style-type: none"> 1. A Hardcopy, excel or pdf file of WO document print form. <u>Alternative :</u> N/A

3.8 Data Structure

Tb_MTN_WorkOrder

Field Name	Data Type	Length	Source	Remarks	Nullable	Mandatory
IdTb_MTN_WorkOrder	Int			Primary Key	No	Yes
IdTb_MTN_Monschdl	Int			Foreign Key	No	Yes
WorkOrder Num	Varchar	100	Tb_MTN_WorkOrder.WorkOrderNum		No	Yes
WorkOrder Status	Int		Tb_OPLStatus		No	Yes
TaskId	Unique identifier				Yes	Yes
Notes	Varchar	500			Yes	Yes
MaintenanceDate	datetime	n/a	Tb_MTN_Monschdl.MaintenanceDate		Yes	Yes
MaintenanceCategory	Varchar	20	Tb_MTN_MaintenanceCategory		Yes	Yes
PhoneNumber	Varchar	50			Yes	Yes
UPWorkSho	Varchar	50			Yes	Yes

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p						
Fax	Varchar	50			Yes	Yes
EstimateCost	Decimal	18.3	Tb_MTN_WorkOrder.EstimateCost		Yes	No
Remarks	Varchar	500			Yes	Yes
RemarksSys	Varchar	100			Yes	Yes
CreatedBy	Varchar	50			No	Yes
CreatedDate	datetime	n/a			No	Yes
LastModifiedBy	Varchar	50			Yes	Yes
LastModifiedDate	datetime	n/a			Yes	Yes

Tb_MTN_WorkOrder_HistoryDtl

Field Name	Data Type	Length	Source	Remarks	Nullable	Mandatory
ProcessID	uniqueidentifier	n/a		Primary Key	No	Yes
IdTb_MTN_WorkOrder	Int		Tb_MTN_WorkOrder		No	Yes
IdTb_MTN_Monschdl	Int		Tb_MTN_Monschdl		No	Yes
TaskId	uniqueidentifier				Yes	Yes
WorkOrderNum	varchar	100	Tb_MTN_WorkOrder.WorkOrderNum	Foreign Key Where Tb_MTN_ListofWO.WorkOrderNum = Tb_MTN_WorkOrder.PoliceNumber.WorkOrderNum	No	Yes
EstimateCost	Decimal	18.3	Tb_MTN_WorkOrder.EstimateCost		Yes	Yes
Remarks	Varchar	500	Tb_MTN_WorkOrder.Remarks		Yes	Yes
MaintenanceDate	Datetime	n/a	Tb_MTN_Monschdl.MaintenanceDate	Format "YYYY-MM-DD hh:mm:dd[nnn]"	Yes	Yes
MaintenanceCategory	Varchar	20			Yes	Yes
WorkOrderStatus	Int		Tb_MTN_WorkOrder.WorkOrderStat	Value taken from TB_OPL_Status.IdTB_OPL_Status	No	Yes
IsDelete	Boolean				No	Yes
RemarkSys	Varchar	100			Yes	Yes
CreatedBy	varchar	100	Tb_OPL_User	Sys.Currentuser	No	Yes
CreatedDate	Datetime	n/a		Sys.CurrentTime	No	Yes
LastModifiedBy	varchar	50	Tb_OPL_User	Sys.CurrentUser	Yes	Yes

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LastModifiedDate	Datetime	n/a		Sys.CurrentTime	Yes	Yes
Notes	Varchar	500	Tb_MTN_WorkOrder.Notes		Yes	Yes
PhoneNumber	Varchar	50	Tb_MTN_WorkOrder.PhoneNumber		Yes	Yes
UPWorkShop	Varchar	50	Tb_MTN_WorkOrder.UPWorkShop		Yes	Yes
Fax	Varchar	50	Tb_MTN_WorkOrder.Fax		Yes	Yes

TB_MTN_WorkOrder_History

Field Name	Data Type	Length	Source	Remarks	Nullable	Mandatory
ProcessId	Varchar	n/a	Tb_MTN_WO_History . ProcessId	Primary Key New guid	No	Yes
OriginalId	Integer	n/a	Tb_MTN_WO_History .OriginalId	Tb_MTN_ListofWO.IdTb_MTN_ListofWO	No	Yes
CreatedDate	Datetime	n/a	Tb_MTN_WO_History .CreatedDate	Sys.CurrentDate	No	Yes
CreatedBy	Varchar	100	Tb_MTN_WO_History .CreatedBy	Sys.CurrentUser	No	Yes
Action	Varchar	100	Tb_MTN_WO_History .Action		No	Yes

3.9 Screen Item List

PF.AD.2.1 WO

No.	Content	Description	Source	Remarks
1	Logo	DSF Logo	Embedded	
2	Company Address	DSF HO Address	REFF_OFFICE.OFFICE_ADDR	
3	Work Order Number	WO Number	Tb_MTN_WorkOrder.WorkOrderNum	
4	WorkshopName and Workshop Address	Supplier Name and Supplier Address	Supplier.Supplier Name AND Supplier.Address	
5	UP	PIC of the Supplier (workshop)	Tb_MTN_WorkOrder.UpWorkShop	
6	Brand	Brand Vehicle	Product.BrandName and Product.ModelName	
7	Police Number	Police Number	Tb_MTN_MonschdI.PoliceNumber	
8	Chassis Number	Chassis Number	Tb_OPL_Unit.ChassisNumber	Based on flag in isUnit, isCarrosserie, isAccessories, isMaintenance
9	Engine Number	Engine Number	Tb_OPL_Unit.EngineNumber	

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10	Colour / Year	Colour and year unit	Product.ModelColour, Product.ModelYear	
11	KM Service	KM Service	Tb_MTN_WorkOrder.KMService	
12	Estimate Cost	Estimate Cost	Tb_MTN_WorkOrder.EstimateCost	
13	Remark	Remark for Maintenance	TB_MTN_WorkOrder.Remark	
14	Last Service	Last Service	Tb_MTN_WorkOrder.LastService	
15	Last KM	Last KM	Tb_MTN_MonschdI.KM	
16	Customer Name	Customer Name	Customer.CustomerName	
17	Phone Number	Phone Number	Customer.Telephone	
18	Maintenance Type	Maintenance Type	Tb_MTN_MonschdI.MaintenanceType	
19	FootNote	Foot Note	Fixed Value	
20	WO Date	WO Date	Tb_MTN_WorkOrder.CreatedDate	
21	Direktur	Approval Role	Role.IdRole	

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DIPO STAR FINANCE
Solusi Kredit Otomotif

SENTRAL SENAYAN 2, 3RD FLOOR, JL. ASIA AFRIKA No. 8, SE JAKARTA
Tel: (021) 57954100, Fax: (021) 5795 4075

Work Order
No: 0242/SPK.DSF/IX/2015

Kode Bkl : 069

Kepada Yth.
PT. Lautan Berlian Utama Motor
Jl. Matraman raya No. 72-73 Jakarta Timur
UP: Pak Rilo Pambudi
Telpon: 021.8581 Fax: 0

Merk/Type Kendaraan
No Polisi
No Rangka
No Mesin
Warna/Tahun
KM Service
Estimasi Biaya

Mitsubishi Outlander
B 1949 P/JF
MHMGAWD2TDK-005379
4B11-KY0
0 2013
70.000
1.900.000

Service Terahir
KM Terahir
Nama Customer
No Telp
Status Maintenance
Untuk Reguler service tidak diperkenankan menggunakan mechanical product seperti Super Engine Conditioner, Carbon Clean, Carbon Jet Cleaner, dll. Jika tagihan terdapat pembayaran atas produk tersebut, kami tidak dapat melakukan pembayaran atas produk tersebut.

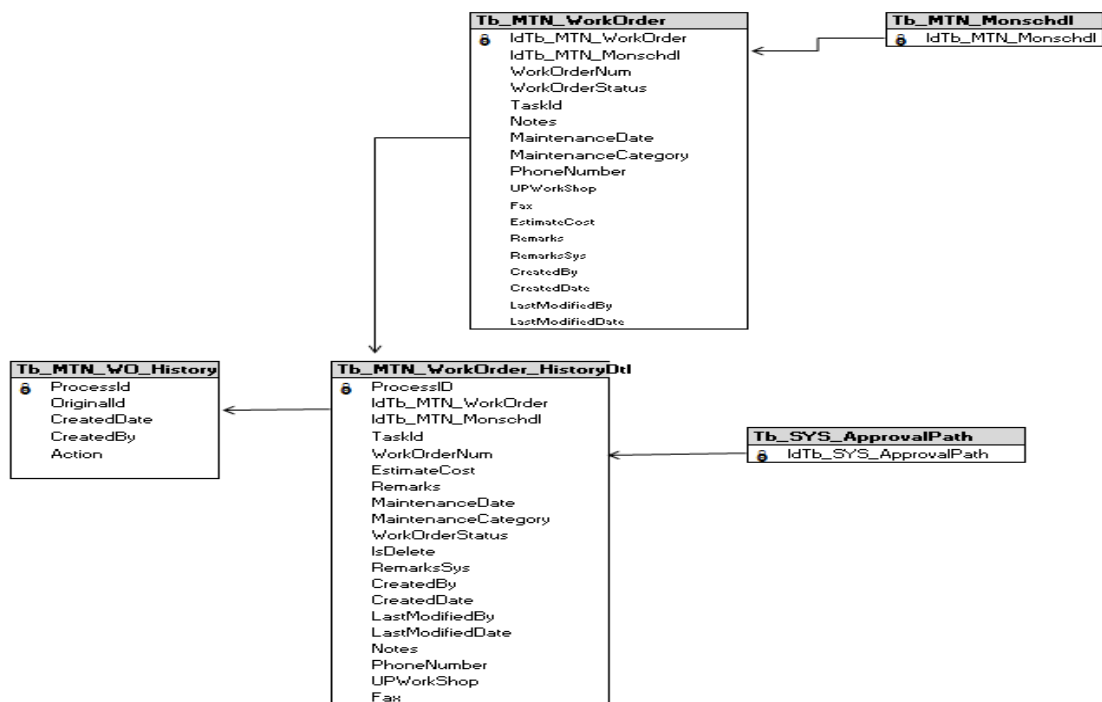
Gt. Pan 2 Pcs
64.980
-

Full Maintenance

Jakarta, 28 September 2015

Delta Riangga

3.10 Entity Relationship Diagram



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Project Name :	Operating Lease Support System Phase-2

APPENDIX

Configuration Access for Manage Work Order:

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