



*Operating Lease Support System Development*

**For**

******

***Functional Specification***

***DATA HISTORICAL***

Revision 3.0

**Prepared by:**

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Document Control

|  |  |
| --- | --- |
| **Author** | Achmad Fardani Rizki |
| **File Name** |  |
| **Path** | N/A |
| **Create Date** |  |
| **Last Edited** |  |
| **Number of Pages** |  |

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Revision** | **Description** | **Author** |
| 08-Apr-2015 | 0.0 | Initial creation | Achmad Fardani Rizki |
| 15-Apr-2015 | 1.0 | Update data structure, distribution list, document approval, and adding process id on data Structure | Achmad Fardani Rizki |
| 25-May-2015 | 2.0 | Fixing datatype of CreatedBy on Master\_History table from "datetime" to " varchar" | Setiyono |
| 10-June-2015 | 3.0 | Update distribution list and document approval | Setiyono |

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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.

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1. Introduction
   1. Purpose

This document is addressed for the users whose privileges for manage the OLSS Application Data Historical.

* 1. Scope

This Functional specification is to explain how OLSS application keeps the old value when data changes.

* 1. Acronyms and abbreviations

[N/A]

* 1. References

[N/A]

1. Detail Specification
   1. Master Data Historical

List of module that covered by master Data Historical :

1. User
2. Role
3. Supplier
4. Customer
5. Product
   * 1. **Input, Process, and Output**

The figure below is describing operations or steps performed by Master Data Historical.



* + 1. **Rules & Constraint**

1. The xml serialization of the old data and the origin table have same schema.
2. To provide information where the data come from, the origin table name will be store on Entity Field Column on History Table
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.

* + 1. **Data structure**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Description** | **Display Format** | **Content** | **Mandatory** |
| **Master\_History** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| OriginalID | int | id of data from origin table | N/A | N/A | No |
| EntityName | nvarchar | Name of the table | N/A | N/A | No |
| Action | nchar | Action that taken by the user | N/A | Update, Activated, Submitted, Set To Draft, InActivted | No |
| CreatedDate | datetime | Date when document created | N/A | N/A | Yes |
| CreatedBy | varchar | User Name of the creator | N/A | N/A | Yes |
| **Master\_History\_Dtl** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| OldValue | xml | stored the value of the data before the changes occurred | N/A | N/A | No |

* 1. Transactional Data Historical
     1. **Calculation Of Refinance Data Historical**

Keep Data History on Calculation Of Refinance Module

* + - 1. **Input, Process, and Output**



* + - 1. **Rules & Constraint**

1. The information about original id, when, by who, the action of the data changes will be stored on CalculationOfSales\_History table, and the old data will be stored in CalculationOfSales\_History\_Dtl and COSOtherExpense\_History\_Dtl.
2. The History\_Dtl Table schemas is almost same with the calculation of refinance origin table, except it has id of the refinance calculation Data Historical.
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.
   * + 1. **Data Structure**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Description** | **Display Format** | **Content** | **Mandatory** |
| **CalculationOfSales\_History** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| OriginalID | int | id of data from origin table | N/A | N/A | No |
| COSNumber | varchar | Refinance Calculation Number | N/A | N/A | No |
| CreatedDate | datetime | Date when document created | N/A | N/A | No |
| CreatedBy | nvarchar | User Name of the creator | N/A | N/A | No |
| Action | nchar | Action that taken by the user | N/A | Update, Validated, Submitted, Set To Draft, InValidated | No |
| **CalculationOfSales\_History\_Dtl** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| IdCalculationOfSales | int | Old data value | N/A | N/A | Yes |
| COSNumber | varchar | Old data value | N/A | N/A | No |
| CustomerCode | varchar | Old data value | N/A | N/A | No |
| ProductCode | varchar | Old data value | N/A | N/A | No |
| CustomerCodeReff | varchar | Old data value | N/A | N/A | No |
| ContractNumberReff | varchar | Old data value | N/A | N/A | No |
| LeaseCategory | varchar | Old data value | N/A | N/A | No |
| MaintenanceType | varchar | Old data value | N/A | N/A | No |
| MonthlyMileage | int | Old data value | N/A | N/A | No |
| ExpectedMileage | int | Old data value | N/A | N/A | No |
| ExpirationDate | datetime | Old data value | N/A | N/A | No |
| PurchaseAfterLease | bit | Old data value | N/A | N/A | Yes |
| NumberPlatColor | varchar | Old data value | N/A | N/A | No |
| SpecialOptions | varchar | Old data value | N/A | N/A | No |
| Usage | varchar | Old data value | N/A | N/A | No |
| Location | varchar | Old data value | N/A | N/A | No |
| ScheduleDateForRegistration | datetime | Old data value | N/A | N/A | No |
| RegistrationDate | datetime | Old data value | N/A | N/A | No |
| EngineNumber | varchar | Old data value | N/A | N/A | No |
| PoliceNumber | varchar | Old data value | N/A | N/A | No |
| ResidualValueAmount | decimal | Old data value | N/A | N/A | No |
| ActualResidualValue | decimal | Old data value | N/A | N/A | No |
| UnitQuantity | int | Old data value | N/A | N/A | No |
| Comission | decimal | Old data value | N/A | N/A | No |
| ProfitAmount | decimal | Old data value | N/A | N/A | No |
| TotalAmount | decimal | Old data value | N/A | N/A | No |
| Remarks | varchar | Old data value | N/A | N/A | No |
| IsValid | bit | Old data value | N/A | N/A | Yes |
| IsDraft | bit | Old data value | N/A | N/A | Yes |
| IsSubmitted | bit | Old data value | N/A | N/A | Yes |
| IsDeleted | bit | Old data value | N/A | N/A | Yes |
| CreateDate | datetime | Old data value | N/A | N/A | Yes |
| CreateBy | varchar | Old data value | N/A | N/A | Yes |
| LastModified | datetime | Old data value | N/A | N/A | No |
| LastModifiedBy | varchar | Old data value | N/A | N/A | No |
| **COSOtherExpense\_History\_Dtl** | | | | | |
| IdCOSOtherExpense\_History\_Dtl | int | id of COS other expense history table | N/A | N/A | Yes |
| IdCalculationOfSales\_History\_Dtl | int | id of Data Historical | N/A | N/A | Yes |
| IdCOSOtherExpense | int | Old data value | N/A | N/A | Yes |
| IdCalculationOfSales | int | Old data value | N/A | N/A | Yes |
| OtherExpense | varchar | Old data value | N/A | N/A | Yes |
| Amount | decimal | Old data value | N/A | N/A | Yes |
| Remarks | varbinary | Old data value | N/A | N/A | No |
|  |  |  |  |  |  |

* + 1. **Refinance Quotation Data Historical**

Keep Data History on Quotation of Refinance Module

* + - 1. **Input, Process, and Output**



* + - 1. **Rules & Constraint**

1. The information about original id, when, by who, the action of the data changes will be stored on SalesQuotation\_History table, and the old data will be stored in SalesQuotation\_History\_Dtl.
2. The History\_Dtl Table schemas is almost same with the refinance quotation origin table, except it has id of the refinance quotation Data Historical.
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.
   * + 1. **Data Structure**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Description** | **Display Format** | **Content** | **Mandatory** |
| **SalesQuotation\_History** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| OriginalID | int | id of data from origin table | N/A | N/A | No |
| COSQuotationNumber | varchar | Refinance Quotation Number | N/A | N/A | No |
| CreatedDate | datetime | Date when document created | N/A | N/A | No |
| CreatedBy | nvarchar | User Name of the creator | N/A | N/A | No |
| Action | nchar | Action that taken by the user | N/A | Update, Validated, Submitted, Set To Draft, InValidated | No |
| **SalesQuotation\_History\_Dtl** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| IdSalesQuotation | int | Old data value | N/A | N/A | Yes |
| COSNumber | varchar | Old data value | N/A | N/A | Yes |
| COSProposalNumber | varchar | Old data value | N/A | N/A | Yes |
| COSQuotationNumber | varchar | Old data value | N/A | N/A | Yes |
| COSQuotationDate | datetime | Old data value | N/A | N/A | Yes |
| ValidUntil | datetime | Old data value | N/A | N/A | Yes |
| Terms | varchar | Old data value | N/A | N/A | Yes |
| ExpectedDelivery | datetime | Old data value | N/A | N/A | No |
| DeliveryPlace | varchar | Old data value | N/A | N/A | No |
| ExactSalesAmount | decimal | Old data value | N/A | N/A | Yes |
| DownPayment | decimal | Old data value | N/A | N/A | No |
| Payment | decimal | Old data value | N/A | N/A | Yes |
| Tax | decimal | Old data value | N/A | N/A | No |
| Remarks | varchar | Old data value | N/A | N/A | No |
| IsValid | bit | Old data value | N/A | N/A | Yes |
| IsDraft | bit | Old data value | N/A | N/A | Yes |
| IsSubmitted | bit | Old data value | N/A | N/A | Yes |
| IsDeleted | bit | Old data value | N/A | N/A | Yes |
| CreateDate | datetime | Old data value | N/A | N/A | Yes |
| CreateBy | varchar | Old data value | N/A | N/A | Yes |
| LastModified | datetime | Old data value | N/A | N/A | No |
| LastModifiedBy | varchar | Old data value | N/A | N/A | No |

* + 1. **Operating Lease Calculation & Proposal Data Historical**

Keep Data History on Operating Lease Calculation Module

* + - 1. **Input, Process, and Output**



* + - 1. **Rules & Constraint**

1. The information about original id, when, by who, the action of the data changes will be stored on OPLCalculation\_History table, and the old data will be stored on OPLCalculation \_History\_Dtl, OPLBasicCondition\_History\_Dtl, OPLFinanceConditon\_History\_Dtl, OPLInsuranceCondition\_History\_Dtl, OPLMaintenanceCondition\_History\_Dtl, and OPLIProposal\_History\_Dtl.
2. The History\_Dtl Table schemas is almost same with the operating lease calculation origin table, except it has id of the operating lease calculation Data Historical
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.
   * + 1. **Data Structure**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Description** | **Display Format** | **Content** | **Mandatory** |
| **OPLCalculation\_History** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| OriginalID | int | id of data from origin table | N/A | N/A | No |
| OPLCalculationNumber | varchar | Operating Lease Claculation Number | N/A | N/A | No |
| CreatedDate | datetime | Date when document created | N/A | N/A | No |
| CreatedBy | nvarchar | User Name of the creator | N/A | N/A | No |
| Action | nchar | Action that taken by the user | N/A | Update, Validated, Submitted, Set To Draft, InValidated | No |
| **OPLCalculation\_History\_Dtl** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| IdOPLCalculation | int | Old data value | N/A | N/A | Yes |
| OPLCalculationNumber | varchar | Old data value | N/A | N/A | Yes |
| ProductCode | varchar | Old data value | N/A | N/A | Yes |
| CustomerCode | varchar | Old data value | N/A | N/A | Yes |
| LeaseCategory | varchar | Old data value | N/A | N/A | No |
| ContractNumberReff | varchar | Old data value | N/A | N/A | No |
| Usage | varchar | Old data value | N/A | N/A | No |
| StartPeriodPlan | datetime | Old data value | N/A | N/A | No |
| EndPeriodPlan | datetime | Old data value | N/A | N/A | No |
| LeasePeriodPlan | int | Old data value | N/A | N/A | No |
| MonthlyMileage | int | Old data value | N/A | N/A | No |
| NumberPlatColor | varchar | Old data value | N/A | N/A | No |
| MaintenanceType | varchar | Old data value | N/A | N/A | No |
| PurchaseAfterLease | bit | Old data value | N/A | N/A | No |
| Insurance | bit | Old data value | N/A | N/A | No |
| STNKRenewal | bit | Old data value | N/A | N/A | No |
| KEURRenewal | bit | Old data value | N/A | N/A | No |
| Carroserrie | decimal | Old data value | N/A | N/A | No |
| CarroserrieType | varchar | Old data value | N/A | N/A | No |
| Accessories | decimal | Old data value | N/A | N/A | No |
| AccessoriesType | varchar | Old data value | N/A | N/A | No |
| IsNewUnit | bit | Old data value | N/A | N/A | No |
| BASTHAndoverSchedule | datetime | Old data value | N/A | N/A | No |
| SecurityDepositPayment | bit | Old data value | N/A | N/A | No |
| SecurityDepositAmount | decimal | Old data value | N/A | N/A | No |
| FirstLeasePayment | int | Old data value | N/A | N/A | No |
| TotalUnitQuantityLease | int | Old data value | N/A | N/A | No |
| SpecialCaseRemarks | varchar | Old data value | N/A | N/A | No |
| MonthlyInstallmentSetting | decimal | Old data value | N/A | N/A | No |
| InterestExpense | decimal | Old data value | N/A | N/A | No |
| InterestExpenseBAST | decimal | Old data value | N/A | N/A | No |
| TotalCost | decimal | Old data value | N/A | N/A | No |
| MonthlyInstallmentAmount | decimal | Old data value | N/A | N/A | No |
| InterestRatePercent | decimal | Old data value | N/A | N/A | No |
| Spread | decimal | Old data value | N/A | N/A | No |
| ProfitAmount | decimal | Old data value | N/A | N/A | No |
| InsuranceCommisionAmount | decimal | Old data value | N/A | N/A | No |
| TotalProfitAmount | decimal | Old data value | N/A | N/A | No |
| Remarks | varchar | Old data value | N/A | N/A | No |
| IsValid | bit | Old data value | N/A | N/A | Yes |
| IsDraft | bit | Old data value | N/A | N/A | Yes |
| IsSubmitted | bit | Old data value | N/A | N/A | Yes |
| IsDeleted | bit | Old data value | N/A | N/A | Yes |
| CreateDate | datetime | Old data value | N/A | N/A | Yes |
| CreateBy | varchar | Old data value | N/A | N/A | Yes |
| LastModified | datetime | Old data value | N/A | N/A | No |
| LastModifiedBy | varchar | Old data value | N/A | N/A | No |
| **OPLFinanceCondition\_History\_Dtl** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| IdOPLCalculation | int | Old data value | N/A | N/A | Yes |
| SpreadEffectivePercent | decimal | Old data value | N/A | N/A | No |
| BorrowingFlatPercent | decimal | Old data value | N/A | N/A | No |
| PrimeEffectivePercent | decimal | Old data value | N/A | N/A | No |
| PrimeFlatPercent | decimal | Old data value | N/A | N/A | No |
| BorrowingEffectivePercent | decimal | Old data value | N/A | N/A | No |
| SpreadFlatPercent | decimal | Old data value | N/A | N/A | No |
| AdministrationFeeAmount | decimal | Old data value | N/A | N/A | No |
| ReplacementCarAmount | decimal | Old data value | N/A | N/A | No |
| MobilizationFeeAmount | decimal | Old data value | N/A | N/A | No |
| DemobilizationFeeAmount | decimal | Old data value | N/A | N/A | No |
| TermPaymentDays | int | Old data value | N/A | N/A | No |
| PaymentType | varchar | Old data value | N/A | N/A | No |
| DPBeforeBASTProduct | decimal | Old data value | N/A | N/A | No |
| DPPeriodBASTProduct | int | Old data value | N/A | N/A | No |
| PSBeforeBASTProduct | decimal | Old data value | N/A | N/A | No |
| PSPeriodBASTProduct | int | Old data value | N/A | N/A | No |
| DPBeforeBASTAccesories | decimal | Old data value | N/A | N/A | No |
| DPPeriodBASTAccesories | int | Old data value | N/A | N/A | No |
| PSBeforeBASTAccesories | decimal | Old data value | N/A | N/A | No |
| PSPeriodBASTAccesories | int | Old data value | N/A | N/A | No |
| DPBeforeBASTCarroserie | decimal | Old data value | N/A | N/A | No |
| DPPeriodBASTCarroserie | int | Old data value | N/A | N/A | No |
| PSBeforeBASTCarroserie | decimal | Old data value | N/A | N/A | No |
| PSPeriodBASTCarroserie | int | Old data value | N/A | N/A | No |
| STNKRenewalFee | decimal | Old data value | N/A | N/A | No |
| KIRRenewaFee | decimal | Old data value | N/A | N/A | No |
| STNKRenewalFeePercent | decimal | Old data value | N/A | N/A | No |
| KIRRenewalFeePercent | decimal | Old data value | N/A | N/A | No |
| Remarks | varchar | Old data value | N/A | N/A | No |
| RegistrationValueAmount | decimal | Old data value | N/A | N/A | No |
| RegistrationValueRate | decimal | Old data value | N/A | N/A | No |
| **OPLBasicCondition\_History\_Dtl** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| IdOPLCalculation | int | Old data value | N/A | N/A | Yes |
| ProductPrice | decimal | Old data value | N/A | N/A | No |
| ProductDiscount | decimal | Old data value | N/A | N/A | No |
| ATPMDiscount | decimal | Old data value | N/A | N/A | No |
| ProductPriceTotal | decimal | Old data value | N/A | N/A | No |
| AccesoriesPrice | decimal | Old data value | N/A | N/A | No |
| AccesoriesDiscount | decimal | Old data value | N/A | N/A | No |
| AccesoriesPriceTotal | decimal | Old data value | N/A | N/A | No |
| CarroserriePrice | decimal | Old data value | N/A | N/A | No |
| CarroserrieDiscount | decimal | Old data value | N/A | N/A | No |
| CarroserriePriceTotal | decimal | Old data value | N/A | N/A | No |
| ResidualValueAmount | decimal | Old data value | N/A | N/A | No |
| SResidualValueAmount | decimal | Old data value | N/A | N/A | No |
| ResidualValuePercent | decimal | Old data value | N/A | N/A | No |
| SResidualValuePercent | decimal | Old data value | N/A | N/A | No |
| Remarks | varchar | Old data value | N/A | N/A | No |
| **OPLInsuranceCondition\_History\_Dtl** | | | | | |
| IdOPLCalculation\_History | int | id of Data Historical | N/A | N/A | Yes |
| IdOPLCalculation | int | Old data value | N/A | N/A | Yes |
| InsuranceCompanyName | varchar | Old data value | N/A | N/A | No |
| InsuranceAgent | varchar | Old data value | N/A | N/A | No |
| ClassOfInsurance | varchar | Old data value | N/A | N/A | No |
| CommissionRate | decimal | Old data value | N/A | N/A | No |
| ProductSeatCapacity | int | Old data value | N/A | N/A | No |
| CoveragePeriod | int | Old data value | N/A | N/A | No |
| MediatorFeePercent | decimal | Old data value | N/A | N/A | No |
| MediatorFeeAmount | decimal | Old data value | N/A | N/A | No |
| InsurancePaymentCycle | varchar | Old data value | N/A | N/A | No |
| Region | nchar(10) | Old data value | N/A | N/A | No |
| BasicRatePremium | decimal | Old data value | N/A | N/A | No |
| ComprehensiveRatePremium | decimal | Old data value | N/A | N/A | No |
| PremiumAmount | decimal | Old data value | N/A | N/A | No |
| BasicRateTPL | decimal | Old data value | N/A | N/A | No |
| ComprehensiveRateTPL | decimal | Old data value | N/A | N/A | No |
| TPLAmount | decimal | Old data value | N/A | N/A | No |
| BasicRatePPL | decimal | Old data value | N/A | N/A | No |
| ComprehensiveRatePPL | decimal | Old data value | N/A | N/A | No |
| PPLAmount | decimal | Old data value | N/A | N/A | No |
| BasicRatePAP | decimal | Old data value | N/A | N/A | No |
| ComprehensiveRatePAP | decimal | Old data value | N/A | N/A | No |
| PAPAmount | decimal | Old data value | N/A | N/A | No |
| BasicRatePAD | decimal | Old data value | N/A | N/A | No |
| ComprehensiveRatePAD | decimal | Old data value | N/A | N/A | No |
| PADAmount | decimal | Old data value | N/A | N/A | No |
| BasicRateSRCC | decimal | Old data value | N/A | N/A | No |
| ComprehensiveRateSRCC | decimal | Old data value | N/A | N/A | No |
| SRCCAmount | decimal | Old data value | N/A | N/A | No |
| BasicRateTS | varchar | Old data value | N/A | N/A | No |
| ComprehensiveRateTS | decimal | Old data value | N/A | N/A | No |
| TSAmount | decimal | Old data value | N/A | N/A | No |
| BasicRateFLD | decimal | Old data value | N/A | N/A | No |
| ComprehensiveRateFLD | decimal | Old data value | N/A | N/A | No |
| FLDAmount | decimal | Old data value | N/A | N/A | No |
| BasicRateEAQ | decimal | Old data value | N/A | N/A | No |
| ComprehensiveRateEAQ | decimal | Old data value | N/A | N/A | No |
| EAQAmount | decimal | Old data value | N/A | N/A | No |
| BasicRateAW | decimal | Old data value | N/A | N/A | No |
| ComprehensiveRateAW | decimal | Old data value | N/A | N/A | No |
| AWAmount | decimal | Old data value | N/A | N/A | No |
| TotalGrossPremium | decimal | Old data value | N/A | N/A | No |
| ComissionAmount | decimal | Old data value | N/A | N/A | No |
| NetPremium | decimal | Old data value | N/A | N/A | No |
| Remarks | varchar | Old data value | N/A | N/A | No |
| **OPLMaintenanceCondition\_History\_Dtl** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| IdOPLCalculation | int | Old data value | N/A | N/A | Yes |
| PeriodicMaintenanceKm | int | Old data value | N/A | N/A | No |
| PeriodicOilExchange | int | Old data value | N/A | N/A | No |
| PeriodicOilFats | int | Old data value | N/A | N/A | No |
| PeriodicMaintenanceAmount | decimal | Old data value | N/A | N/A | No |
| IrregularMaintenance | varchar | Old data value | N/A | N/A | No |
| IrregularMaintenanceAmount | decimal | Old data value | N/A | N/A | No |
| BateryKm | int | Old data value | N/A | N/A | No |
| BateryAmount | decimal | Old data value | N/A | N/A | No |
| TireKm | int | Old data value | N/A | N/A | No |
| TireAmount | decimal | Old data value | N/A | N/A | No |
| SpecialParts | varchar | Old data value | N/A | N/A | No |
| SpecialPartsAmount | decimal | Old data value | N/A | N/A | No |
| CSD | varchar | Old data value | N/A | N/A | No |
| CSDAmount | decimal | Old data value | N/A | N/A | No |
| MaintenanceOther1 | varchar | Old data value | N/A | N/A | No |
| MaintenanceOther1Amount | decimal | Old data value | N/A | N/A | No |
| MaintenanceOther2 | varchar | Old data value | N/A | N/A | No |
| MaintenanceOther2Amount | decimal | Old data value | N/A | N/A | No |
| MaintenanceOther3 | varchar | Old data value | N/A | N/A | No |
| MaintenanceOther3Amount | decimal | Old data value | N/A | N/A | No |
| TotalMaintenanceAmount | decimal | Old data value | N/A | N/A | No |
| Remarks | varchar | Old data value | N/A | N/A | No |
| **OPLIProposal\_History\_Dtl** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| IdOPLIProposal | int | Old data value | N/A | N/A | Yes |
| OPLProposalNumber | varchar | Old data value | N/A | N/A | Yes |
| OPLCalculationNumber | varchar | Old data value | N/A | N/A | Yes |
| ProposalDate | datetime | Old data value | N/A | N/A | Yes |
| ProposalDescription | varchar | Old data value | N/A | N/A | No |
| [To] | varchar | Old data value | N/A | N/A | No |
| CustomerCode | varchar | Old data value | N/A | N/A | Yes |
| CustomerName | varchar | Old data value | N/A | N/A | Yes |
| PICName | varchar | Old data value | N/A | N/A | Yes |
| PICPosition | varchar | Old data value | N/A | N/A | No |
| PICTelephone | varchar | Old data value | N/A | N/A | Yes |
| PICEmail | varchar | Old data value | N/A | N/A | No |
| IsCOPProgramme | bit | Old data value | N/A | N/A | Yes |
| PurposeOfUse | varchar | Old data value | N/A | N/A | Yes |
| Validuntil | datetime | Old data value | N/A | N/A | Yes |
| ProposeBy | varchar | Old data value | N/A | N/A | No |
| AcknowledgeBy1 | varchar | Old data value | N/A | N/A | No |
| AcknowledgeBy2 | varchar | Old data value | N/A | N/A | No |
| AcknowledgeBy3 | varchar | Old data value | N/A | N/A | No |
| ApproveBy | varchar | Old data value | N/A | N/A | No |
| Remarks | varchar | Old data value | N/A | N/A | No |

* + 1. **Operating Lease Quotation Data Historical**

Keep Data History on Operating Lease Quotation Module

* + - 1. **Input, Process, and Output**



* + - 1. **Rules & Constraint**

1. The information about original id, when, by who, the action of the data changes will be stored on OPLQuotation\_History table, and the old data will be stored on OPLQuotation \_History\_Dtl.
2. The History\_Dtl Table schemas is almost same with the operating lease quotation origin table, except it has id of the operating lease quotation Data Historical
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.
   * + 1. **Data Structure**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Description** | **Display Format** | **Content** | **Mandatory** |
| **OPLQuotation\_History** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| OriginalID | int | id of data from origin table | N/A | N/A | No |
| OPLQuotationNo | varchar | Operating Lease Claculation Number | N/A | N/A | No |
| CreatedDate | datetime | Date when document created | N/A | N/A | No |
| CreatedBy | nvarchar | User Name of the creator | N/A | N/A | No |
| Action | nchar | Action that taken by the user | N/A | Update, Validated, Submitted, Set To Draft, InValidated | No |
| **OPLQuotation\_History\_Dtl** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| IdOPLQuotation | int | Old data value | N/A | N/A | Yes |
| OPLCalculationNumber | varchar | Old data value | N/A | N/A | Yes |
| OPLProposalNumber | varchar | Old data value | N/A | N/A | Yes |
| OPLQuotationNumber | varchar | Old data value | N/A | N/A | Yes |
| OPLQuotationDate | datetime | Old data value | N/A | N/A | No |
| ValidUntil | datetime | Old data value | N/A | N/A | Yes |
| ExpectedDeliveryDate | datetime | Old data value | N/A | N/A | Yes |
| DeliveryPlace | varchar | Old data value | N/A | N/A | No |
| DownPayment | decimal | Old data value | N/A | N/A | Yes |
| PrepaidMonthsRent | decimal | Old data value | N/A | N/A | No |
| Payment | decimal | Old data value | N/A | N/A | No |
| Tax | decimal | Old data value | N/A | N/A | No |
| AdditionalItems | varchar | Old data value | N/A | N/A | No |
| Remarks | varchar | Old data value | N/A | N/A | No |
| IsValid | bit | Old data value | N/A | N/A | Yes |
| IsDraft | bit | Old data value | N/A | N/A | Yes |
| IsSubmitted | bit | Old data value | N/A | N/A | Yes |
| IsDeleted | bit | Old data value | N/A | N/A | Yes |
| CreateDate | bit | Old data value | N/A | N/A | Yes |
| CreateBy | varchar | Old data value | N/A | N/A | Yes |
| LastModified | datetime | Old data value | N/A | N/A | No |
| LastModifiedBy | varchar | Old data value | N/A | N/A | No |

* + 1. **Agreement Data Historical**

Keep Data History on Agreement Module

* + - 1. **Input, Process, and Output**



* + - 1. **Rules & Constraint**

1. The information about original id, when, by who, the action of the data changes will be stored on OPLAgreement\_History table, and the old data will be stored in OPLAgreement\_History\_Dtl, OPLAgreementDetails\_History\_Dtl, and OPLUObjectLease\_history\_Dtl.
2. The History\_Dtl Table schemas is almost same with the agreement origin table, except it has id of the agreement Data Historical
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.
   * + 1. **Data Structure**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Description** | **Display Format** | **Content** | **Mandatory** |
| **OPLAgreement\_History** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| OriginalID | int | id of data from origin table | N/A | N/A | No |
| AgreementNumber | varchar | Agreement Number | N/A | N/A | No |
| CreatedDate | datetime | Date when document created | N/A | N/A | No |
| CreatedBy | nvarchar | User Name of the creator | N/A | N/A | No |
| Action | nchar | Action that taken by the user | N/A | Update, Validated, Submitted, Set To Draft, InValidated | No |
| **OPLAgreement\_History\_Dtl** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| IdOPLAgreement | int | Old data value | N/A | N/A | Yes |
| PICFullName | varchar | Old data value | N/A | N/A | No |
| PICPositionName | varchar | Old data value | N/A | N/A | No |
| PICEmailAddress | varchar | Old data value | N/A | N/A | No |
| PICTelephone | varchar | Old data value | N/A | N/A | No |
| CustomerCode | varchar | Old data value | N/A | N/A | Yes |
| AgreementNumberReff | varchar | Old data value | N/A | N/A | No |
| CustomerCodeReff | varchar | Old data value | N/A | N/A | No |
| AgreementNumber | varchar | Old data value | N/A | N/A | Yes |
| AgreementDate | date | Old data value | N/A | N/A | Yes |
| StartPeriodDate | date | Old data value | N/A | N/A | Yes |
| EndPeriodDate | date | Old data value | N/A | N/A | Yes |
| TerminateDate | date | Old data value | N/A | N/A | No |
| LeaseCategory | varchar | Old data value | N/A | N/A | Yes |
| IsInsurance | bit | Old data value | N/A | N/A | Yes |
| PurchaseAfterLease | bit | Old data value | N/A | N/A | Yes |
| PaymentTransactionType | varchar | Old data value | N/A | N/A | No |
| FDueDateUsage | date | Old data value | N/A | N/A | No |
| FDDatePayment | date | Old data value | N/A | N/A | No |
| TermOfPayment | int | Old data value | N/A | N/A | No |
| DepositPaymentDate | date | Old data value | N/A | N/A | No |
| DepositReturnDate | date | Old data value | N/A | N/A | No |
| DepositAmount | decimal | Old data value | N/A | N/A | No |
| NumberOfPayments | int | Old data value | N/A | N/A | No |
| TotalMonthlyInstallment | decimal | Old data value | N/A | N/A | Yes |
| TotalUnitQuantity | decimal | Old data value | N/A | N/A | Yes |
| IssueInvoiceDate | date | Old data value | N/A | N/A | No |
| InterestOfPenalty | decimal | Old data value | N/A | N/A | No |
| Remarks | varchar | Old data value | N/A | N/A | No |
| IsValid | bit | Old data value | N/A | N/A | Yes |
| IsDraft | bit | Old data value | N/A | N/A | Yes |
| IsSubmitted | bit | Old data value | N/A | N/A | Yes |
| IsDeleted | bit | Old data value | N/A | N/A | Yes |
| CreateDate | datetime | Old data value | N/A | N/A | Yes |
| CreateBy | varchar | Old data value | N/A | N/A | Yes |
| LastModified | datetime | Old data value | N/A | N/A | No |
| LastModifiedBy | varchar | Old data value | N/A | N/A | No |
| BASTHAndoverSchedule | date | Old data value | N/A | N/A | Yes |
| **OPLAgreementDetails\_History\_Dtl** | | | | | |
| IdOPLAgreementDetails\_History\_Dtl | int | id of COS other expense history table | N/A | N/A | Yes |
| IdOPLAgreementDetails\_History\_Dtl | int | id of Data Historical | N/A | N/A | Yes |
| IdOPLAgreement | int | Old data value | N/A | N/A | Yes |
| AgreementNumber | varchar | Old data value | N/A | N/A | Yes |
| OPLCalculationNumber | varchar | Old data value | N/A | N/A | Yes |
| OPLQuotationNumber | varchar | Old data value | N/A | N/A | Yes |
| ProductCode | varchar | Old data value | N/A | N/A | Yes |
| IsCarroserie | bit | Old data value | N/A | N/A | Yes |
| IsAccessories | bit | Old data value | N/A | N/A | Yes |
| MaintenanceType | varchar | Old data value | N/A | N/A | Yes |
| Usage | varchar | Old data value | N/A | N/A | No |
| MonthlyMileageContract | int | Old data value | N/A | N/A | No |
| RegularMaintenanceMileage | int | Old data value | N/A | N/A | No |
| OilExchangeMileage | int | Old data value | N/A | N/A | No |
| LubricantsFatMileage | int | Old data value | N/A | N/A | No |
| BateryChangeMileage | int | Old data value | N/A | N/A | No |
| TireChangeMileage | int | Old data value | N/A | N/A | No |
| SpecialPartsMileage | int | Old data value | N/A | N/A | No |
| IrregularMaintenance | int | Old data value | N/A | N/A | No |
| CSDMaintenance | varchar | Old data value | N/A | N/A | No |
| GeneralFailureMaintenance | bit | Old data value | N/A | N/A | No |
| STNKRenewal | bit | Old data value | N/A | N/A | Yes |
| STNKRenewalDate | date | Old data value | N/A | N/A | No |
| KEURRenewal | bit | Old data value | N/A | N/A | Yes |
| KEURRenewalDate | date | Old data value | N/A | N/A | No |
| BreakDawnContract | bit | Old data value | N/A | N/A | No |
| BreakDownRemarks | varchar | Old data value | N/A | N/A | No |
| ReplacementUnit | bit | Old data value | N/A | N/A | No |
| ReplacementUnitRemarks | varchar | Old data value | N/A | N/A | No |
| UnitQuantity | int | Old data value | N/A | N/A | Yes |
| MonthlyInstallmentAmount | decimal | Old data value | N/A | N/A | Yes |
| MonthlyMileageAverage | int | Old data value | N/A | N/A | No |
| **OPLUObjectLease\_History\_Dtl** | | | | | |
| IdUObjLease\_History\_Dtl | int | Old data value | N/A | N/A | Yes |
| IdUObjLease | int | Old data value | N/A | N/A | Yes |
| ProcessId | string | Old data value | N/A | N/A | Yes |
| IdOPLAgreement | int | Old data value | N/A | N/A | Yes |
| AgreementNumber | varchar | Old data value | N/A | N/A | Yes |
| IdentityPoliceNumber | varchar | Old data value | N/A | N/A | Yes |
| EngineNumber | varchar | Old data value | N/A | N/A | No |
| Remarks | varchar | Old data value | N/A | N/A | No |

* + 1. **Service History Data Historical**

Keep Data History on Service History Module

* + - 1. **Input, Process, and Output**



* + - 1. **Rules & Constraint**

1. The information about original id, when, by who, the action of the data changes will be stored on OPLServiceHistory\_History table, and the old data will be stored in OPLServiceHistory\_History\_Dtl, OPLServiceHistorySum\_History\_Dtl, OPLSHistoryItems\_History\_Dtl, and OPLSHistoryParts\_History\_Dtl.
2. The History\_Dtl Table schemas is almost same with the service history origin table, except it has id of the service history Data Historical
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.
   * + 1. **Data Structure**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Description** | **Display Format** | **Content** | **Mandatory** |
| **OPLServiceHistory\_History** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| OriginalID | int | id of data from origin table | N/A | N/A | No |
| CreatedDate | datetime | Date when document created | N/A | N/A | No |
| CreatedBy | nvarchar | User Name of the creator | N/A | N/A | No |
| Action | nchar | Action that taken by the user | N/A | Update, Validated, Submitted, Set To Draft, InValidated | No |
| **OPLServiceHistory\_History\_Dtl** | | | | | |
| IdOPLServiceHistory\_History\_Dtl | int | id of Data Historical | N/A | N/A | Yes |
| ProcessId | string | Old data value | N/A | N/A | Yes |
| IdOPLServiceHistory | int | Old data value | N/A | N/A | Yes |
| IdServiceHistorySum | int | Old data value | N/A | N/A | Yes |
| IdOPLAgreement | int | Old data value | N/A | N/A | Yes |
| IdUObjLease | int | Old data value | N/A | N/A | Yes |
| MaintenanceType | varchar | Old data value | N/A | N/A | Yes |
| ServiceDate | date | Old data value | N/A | N/A | Yes |
| MonthlyMileage | int | Old data value | N/A | N/A | Yes |
| MaintenanceItem | varchar | Old data value | N/A | N/A | Yes |
| PaymentExpense | decimal | Old data value | N/A | N/A | Yes |
| SuplierCode | varchar | Old data value | N/A | N/A | Yes |
| IsPerodicMaintenance | bit | Old data value | N/A | N/A | Yes |
| IsCServiceDesk | bit | Old data value | N/A | N/A | Yes |
| IsIregularMaintenance | bit | Old data value | N/A | N/A | Yes |
| SubTotal | decimal | Old data value | N/A | N/A | Yes |
| PPNTax | decimal | Old data value | N/A | N/A | Yes |
| PPHTax | decimal | Old data value | N/A | N/A | Yes |
| TotalIncludeTax | decimal | Old data value | N/A | N/A | Yes |
| Remarks | varchar | Old data value | N/A | N/A | No |
| IsValid | bit | Old data value | N/A | N/A | Yes |
| IsDraft | bit | Old data value | N/A | N/A | Yes |
| IsDeleted | bit | Old data value | N/A | N/A | Yes |
| CreateDate | datetime | Old data value | N/A | N/A | Yes |
| CreateBy | varchar | Old data value | N/A | N/A | Yes |
| LastModified | datetime | Old data value | N/A | N/A | No |
| LastModified | varchar | Old data value | N/A | N/A | No |
| **OPLServiceHistorySum\_History\_Dtl** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| IdServiceHistorySum | int | id of Service History Sum | N/A | N/A | Yes |
| MaintenanceBudget | decimal | Old data value | N/A | N/A | Yes |
| MaintenanceDisbursement | decimal | Old data value | N/A | N/A | Yes |
| Digestibility | decimal | Old data value | N/A | N/A | Yes |
| IsValid | bit | Old data value | N/A | N/A | Yes |
| CreateDate | datetime | Old data value | N/A | N/A | Yes |
| CreateBy | varchar | Old data value | N/A | N/A | Yes |
| LastModified | datetime | Old data value | N/A | N/A | No |
| LastModifiedBy | varchar | Old data value | N/A | N/A | No |
| **OPLSHistoryItems\_History\_Dtl** | | | | | |
| IdOPLSHistoryItems\_History\_Dtl | int | id of Data Historical | N/A | N/A | Yes |
| IdOPLServiceHistory\_History\_Dtl | int | Old data value | N/A | N/A | Yes |
| IdOPLSHistoryItems | Int | Old data value | N/A | N/A | Yes |
| IdOPLServiceHistory | Int | Old data value | N/A | N/A | No |
| ImplementationItems | varchar | Old data value | N/A | N/A | No |
| LaborCostAmount | deciaml | Old data value | N/A | N/A | Yes |
| Remarks | varchar | Old data value | N/A | N/A | No |
| **OPLSHistoryParts\_History\_Dtl** | | | | | |
| IdOPLSHistoryParts\_History\_Dtl | int | id of Data Historical | N/A | N/A | Yes |
| IdOPLServiceHistory\_History\_Dtl | int | Old data value | N/A | N/A | Yes |
| IdOPLSHistoryParts | int | Old data value | N/A | N/A | Yes |
| IdOPLServiceHistory | int | Old data value | N/A | N/A | Yes |
| PartCode | varchar | Old data value | N/A | N/A | Yes |
| PartName | varchar | Old data value | N/A | N/A | Yes |
| TypeOfAction | varchar | Old data value | N/A | N/A | Yes |
| Quantity | int | Old data value | N/A | N/A | Yes |
| Amount | decimal | Old data value | N/A | N/A | Yes |
| Remarks | varchar | Old data value | N/A | N/A | No |

* + 1. **Billing & Payment History Data Historical**

Keep Data History on Billing & Payment History Module

* + - 1. **Input, Process, and Output**



* + - 1. **Rules & Constraint**

1. The information about original id, when, by who, the action of the data changes will be stored on OPLBillPayHistory\_History table, and the old data will be stored in OPLBillPayHistory\_History\_Dtl and OPLBillPayHistoryDetails\_History\_Dtl.
2. The History\_Dtl Table schemas is almost same with the billing & payment history origin table, except it has id of the billing & payment history Data Historical
3. The whole process will be done synchronously. And if some error occurred when collecting or stored the old data, the changes of the data will be cancelled.
   * + 1. **Data Structure**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Description** | **Display Format** | **Content** | **Mandatory** |
| **OPLBillPayHistory\_History** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| OriginalID | int | id of data from origin table | N/A | N/A | No |
| CreatedDate | datetime | Date when document created | N/A | N/A | No |
| CreatedBy | nvarchar | User Name of the creator | N/A | N/A | No |
| Action | nchar | Action that taken by the user | N/A | Update, Validated, Submitted, Set To Draft, InValidated | No |
| **OPLBillPayHistory\_History\_Dtl** | | | | | |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| IdOPLBillpayHistory | int | Old data value | N/A | N/A | Yes |
| IdOPLAgreement | int | Old data value | N/A | N/A | Yes |
| ExpectationCollectionAmount | decimal | Old data value | N/A | N/A | Yes |
| CollectionAmount | decimal | Old data value | N/A | N/A | Yes |
| OverdueAmount | decimal | Old data value | N/A | N/A | No |
| BillingTotal | decimal | Old data value | N/A | N/A | Yes |
| Remarks | varchar | Old data value | N/A | N/A | No |
| IsValid | bit | Old data value | N/A | N/A | Yes |
| CreateDate | datetime | Old data value | N/A | N/A | Yes |
| CreateBy | varchar | Old data value | N/A | N/A | Yes |
| LastModified | datetime | Old data value | N/A | N/A | No |
| LastModifiedBy | varchar | Old data value | N/A | N/A | Yes |
| **OPLBillPayHistoryDetails\_History\_Dtl** | | | | | |
| IdOPLBillpayHistoryDetails\_History\_Dtl | int | id of COS other expense history table | N/A | N/A | Yes |
| ProcessId | string | id of Data Historical | N/A | N/A | Yes |
| IdOPLBillpayHistoryDetails | int | Old data value | N/A | N/A | Yes |
| IdOPLBillpayHistory | int | Old data value | N/A | N/A | Yes |
| PaymentTransactionType | varchar | Old data value | N/A | N/A | Yes |
| PaymentSchedule | date | Old data value | N/A | N/A | Yes |
| BillAmount | decimal | Old data value | N/A | N/A | Yes |
| InvoiceIssueDate | date | Old data value | N/A | N/A | No |
| CollectionDate | date | Old data value | N/A | N/A | No |
| CollectionAmount | decimal | Old data value | N/A | N/A | No |
| BreakDawnAmount | decimal | Old data value | N/A | N/A | No |
| PenaltyAmount | decimal | Old data value | N/A | N/A | No |
| OverdueDays | int | Old data value | N/A | N/A | No |
| VATAmount | decimal | Old data value | N/A | N/A | No |
| PPHAmount | decimal | Old data value | N/A | N/A | No |
| Remarks | varchar | Old data value | N/A | N/A | No |
| IsDraft | bit | Old data value | N/A | N/A | Yes |
| IsValid | bit | Old data value | N/A | N/A | Yes |
| CreateDate | datetime | Old data value | N/A | N/A | Yes |
| CreateBy | varchar | Old data value | N/A | N/A | Yes |
| LastModified | datetime | Old data value | N/A | N/A | No |
| LastModifiedBy | varchar | Old data value | N/A | N/A | No |

1. Appendix
   1. Entity Relationship Diagram Data Historical

This ERD shows the relationships of entity sets, and also object of the entity. Please refer to Entity Relationship Diagram Data Historical document for details.