**Danial Dadmohammadi**

**[D365 finance and operations]  ARADA**

**Technical design document**

**for**

**IT-253 |** **PO/PR- Intercompany orders, using buying and receiving legal entites**

**Revision and Signoff Sheet**

**Change Record**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Author | Version | Change reference |
| 2/21/2023 | Danial Dadmohammadi | 1.0.0 | Task 253: PO/PR- Intercompany orders, using buying and receiving legal entities |

**Reviewers**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Version reviewed | Position | Date |
| Nagendra Chitturi | 1.0.0 | Solution Architect |  |

**Approvers**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Version reviewed | Position | Date |
| Awad | 1.0.0 | Senior Manager – Enterprise solutions |  |

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1. Overview

## Objective

## Creating a vendor invoice register when PO is posted, if buying and receiving legal entities are different.

## References

|  |  |  |  |
| --- | --- | --- | --- |
| ZOHO ID | Manage Engine ID | Description | Owner |
| -- | -- | PO/PR- Intercompany orders, using buying and receiving legal entites. | Danial, Nagendra |

## Purpose and Overview

Creating an invoice register automatically based on the PR receiving legal entity and buying legal entity values at the PO line level.

## Requirement Overview

*Whenever the two values of the buying legal entity and receiving legal entity are different, an invoice register should be created.*

## Solution Overview

* We should create two new fields in the PO line level till the user can select the all proper values from the drop down listed. These values come from the PR line as a default value and user can change them.
* If he/she select the two different values and continue his/her actions until the PO invoice, once the PO is invoiced, a new vendor invoice register journal is created and posted automatically based on the PO line info.
* Finally, we have added the linked vendor invoice register journal created into the vendor invoice journal for tracking point.

**Following are the objects that are involved in the development process.**

**Soloution name: ARPrPoVendInvoiceLegalEntity\_ddm**

**Project name: ARPrPoVendInvoiceLegalEntity\_ddm**

**Classes:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| Ar\_MCRLedgerJournal\_Class\_Extension | To extend the standard clas “MCRLedgerJournal” |
| AR\_PurchFormletterParmDataInvoice\_Class\_Extension | To extend the standard clas “PurchFormletterParmDataInvoice” |
| AR\_PurchInvoiceJournalPost\_Invoice\_Class\_Extension | To extend the standard clas “PurchInvoiceJournalPost” for invoice journal creating |
| AR\_PurchLine\_Table\_Extension | Extension of the “PurchLine” to add the default value from the PR |
| ARPurchTableFormDataSource\_Extension | Override the modified() method of the “PurchTable” form |
| ARVendInvoiceJour\_Extension | Extension of the “LedgerJournalTrans” table to handle the manual vend invoice register creation |
| MCRLedgerJournal\_InvoiceRegisterJournal | Extends from the “MCRLedgerJournal” to handle the core logic of the ledger journal transactions |

**Display Menu Items:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| ARUpdateReceivingLegalEntity | To open the form for selecting the receiving and buying legal entity |

**Form Extensions:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| PurchTable.ISLDEV | Adding a new field on the form as a receiving legal entity |
| VendEditInvoice.ISLDEV | Adding a new field on the form as a receiving legal entity and buying legal entity |
| VendInvoiceJournal.ISLDEV | Adding a link for a journal has been created before. |
| VendParameters.ISLDEV | Adding invoice register journal name for the desired legal entity |

**Forms:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| ARUpdateRecivingLegalEntity | A form for opening at the po line level |

**Menu Extensions:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| -- | -- |

**Service Groups:**

**Service:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| -- | -- |

**Tables:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| PurchLine.ISLDEV | Adding the fields of the buying and receiving |
| VendInvoiceInfoLine.ISLDEV | Adding the fields of the buying and receiving |
| VendInvoiceJour.ISLDEV | Adding the journal number created before link |
| VendParameters.ISLDEV | Adding the fields of invoice journal register name |

### Security design

## Security Roles

|  |  |  |
| --- | --- | --- |
| **Name** | **Duties** | **Addl Remarks** |
| -- | -- | -- |

## Duties

|  |  |  |
| --- | --- | --- |
| **Name** | **Privileges** | **Addl Remarks** |
| -- | -- | -- |

## Privileges

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Entry Points** | **DATA entity permission** | **Access Level** | **Addl Remarks** |
| -- | -- | -- | -- | -- |

## Process Cycles

|  |  |  |
| --- | --- | --- |
| **Name** | **Duties** | **Addl Remarks** |
| -- | -- | -- |