Functional Specification (SAP)

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| **S/4 HANA Implementation by Xyram**  **D3883**  **Ground Rent Check** |
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**Record of Release**

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# General Information

|  |  |
| --- | --- |
| **Object ID and Description** |  |
| **Project ID** |  |
| **Program Name** |  |
| **Transaction ID** |  |
| **Action** |  |
| **Requirement document** | <Please enter reference of requirement document> |
| **Process Area** | OTC |
| **Type of Development** | New Enhancement |
| **Deployment** | Local Deployment |
| **Data Direction** | SAP ECC environment |
| **Reporting Tool** | ABAP |
| **Presentation** |  |
| **Paper/Screen Size** |  |
| **Volume** | As and when Basis |
| **Report Execution Method** | NA |
| **Scheduling and Timing** | NA |
| **Variants** | NA |
| **Project Manager** |  |
| **Business Analyst** | Mr. |
| **Priority (L/M/H)** | Medium |
| **Effort Estimation (Person Hours)** |  |
| **Technology** | SAP ECC |
| **Created by /Date** |  |
| **Reviewed by /Date** |  |
| **Version** | 1.0 |

# Business Requirement

**Objective –** Ground rent check for which lots issue date is the beyond the requested delivery date in delivery document during post goods issue. Ground rent check process will be done at stock keeping location for delivery line item.

The Ground rent check process, Ground rent payment confirmation and depot Comdt approval will be done by person responsible for stock keeping/issuing location.

**Purpose –** The purpose of this object is to the check the ground rent, Ground rent payment confirmation, and Depot Comdt approval in Out-bound Delivery. The stock keeping/issuing unit person responsible will check the ground rent during PGI in delivery document.

**Users –** Person responsible for lot issue from stock keeping location can do these activities.

**Known Errors / Issues –** Ground rent check will not be applicable for EWM server, as none of the business process of EWM server will not be applicable for the Ground rent check.

Describe Requirement & Provide Business Process and data flow diagram

Business wants to check the Ground Rent on click the button PGI in delivery document, if actual post goods issue date of the line item is below the requested delivery date, system need not check for the ground rent and system allow to save the PGI. If actual post goods issue date is beyond the requested delivery date system stop the further process (PGI) and give the error message.

If there is actual PGI date is beyond the requested delivery date, then system not allow to save the PGI, should display those extra days in the pop-up box and system should calculate 2% on 10% of item net value per day as ground rent. Display the extra days and corresponding ground rent on the Pop-up box.

If line item is applicable for ground rent to proceed further either Depot Comdt approval is required or ground rent payment receipt numbers have to be enter in the Pop-up box.

If Ground rent payment receipt numbers have been entered by the user, receipts payment and ground rent payment which has been displayed earlier as ground rent in the pop-up box both payments should be equal then only system should allow to save the PGI on click the button “Do you want proceed for post goods issue” in the pop-up box.

Following are the current business process flow diagram followed by the business



# Impact Analysis

## Understanding

### S/4 HANA enhancements on AR Functionalities

### Business Scenario and Need:

Business wants to check the Ground Rent on click the button PGI in delivery document, if actual post goods issue date of the line item is below the requested delivery date, system need not check for the ground rent and system allow to save the PGI. If actual post goods issue date is beyond the requested delivery date system stop the further process (PGI) and give the error message.

The need for a new process is due to the following reasons:-

* System will check for ground rent during post goods issue if incase the lot PGI date is beyond the requested delivery date.
* Where actual PGI date is beyond the requested delivery date there system should stop the further process. System will calculate the delay days and its ground rent payment.
* Where ground rent is applicable there system should satisfies with either Depot Comdt approval or payment receipts numbers to proceed further.

### Impact:

By doing this object system calculates the delay days for lot lifting and calculates ground rent amount for those delay days. Untill receipt the ground rent or depot Comdt approval system will not allow to save the post goods issue.

## Solution

#### Following are the solution to be implemented in SAP environment so that ground rent payment check process can be established in the delivery document in the current business.

1. New pop-up box is to be created.
2. New fields have to be incorporated to display the delay days and ground rent payment.
3. New Input and Depot Comdt approval are to be incorporated.

<Work Item ID: >

#### Impacted Areas & Dependencies

Materials Management - > Inventory Management ->FI management Outbound Delivery

#### Functional Solution

1. While doing PGI system should consider the current date of the system. (Take SY-DATUM).

2. Compare the PGI date with requested delivery date. (Pass the SY-DATUM into KETDAT-VBAK).

3. If date of PGI (SY-DATUM) ≤ Requested delivery date (KETDAT-VBAK), system should allow to do PGI. (No pop-up box)

4. If date of PGI > Requested delivery date (KETDAT-VBAK), system should give the error message and stop the further process.

5. If date of PGI (SY-DATUM) > Requested delivery date (KETDAT-VBAK), system should calculate the days extra from Requested delivery date (KETDAT-VBAK).

6. If system calculated extra days during PGI, display the extra days in pop-up box.

7. Conditions to proceed further: If date of PGI (SY-DATUM)> Requested delivery date (KETDAT-VBAK), ‘Either’ system should satisfy the Depot Comdt approval ‘Or’ enter the Payment receipt numbers to proceed further.

8. Pop-up Box design:

1. System should Display the days in the field ‘Number of days exceeded’-
2. System should Display the amount for the days exceeded in the field ‘ Ground rent amount’-
3. Provide the radio button with description of ‘GR Payment receipt numbers’ from and to fields (Drop down Box) with F4 option help.
4. Provide the execute button with description ‘Proceed for post goods issue’.

**Part-1:**

* + If date of PGI (SY-DATUM)>30 Days, Requested delivery date (KETDAT-VBAK),

if days calculated extra by the system, those extra days should display in the field ‘No of days Exceeded’ in the pop-up box.

* + For each extra day, calculate 2% on 10% of corresponding sales order item net value (NETWR-VBAP) from requested delivery date if PGI quantity and sales order quantity is equal. Display the calculated amount in the field ‘Total GR Amount’ in the Pop-up box.
  + For each extra day, calculate 2% on 10% of corresponding sales order item net value (NETWR-VBAP) for PGI quantity (LFIMG-LIPS). Display the calculated amount in the field ‘Total GR Amount’ in the Pop-up box.

**Part-2: (Selection)**

**Condition-1**

On click radio button ‘Payment Receipt Number’, system should display the corresponding sales order billing documents (GR Down Payment Request) numbers which documents have Ground rent condition type amount.

Take (VBELN-LIPS) and pass to (VBELN-LIPS) and fetch the (VGBEL-LIPS) and (VGPOS-LIPS).

Pass the (VGBEL-LIPS) and (VGPOS-LIPS) to (VGBEL-VBRP) and (VGPOS-VBRP) if Billing rule FAREG-VBRP=5 fetch (VBELN-VBRP) in the field ‘Payment Receipt Number’ in the pop-up box.

**Condition-2**

Comdt Approval Workflow

**Part-3**

**Payment check:**

* On click the button (F8) “Do you want to proceed for Post Goods Issue” system has to check the GR payment receipt according to calculation amount.
* Pass the (VGBEL-LIPS) and (VGPOS-LIPS) to (VGBEL-VBRP) and (VGPOS-VBRP) if Billing rule FAREG-VBRP=5 fetch (VBELN-VBRP) and (VBRP-POSNR), (NETWR-VBRP), in the field ‘Payment Receipt Number’ in the pop-up box.
* Cumulate the (NETWR-VBRP) and pass the (NETWR-VBRP) to Total GR amount field if NETWR-VBRP ≥ ‘Total GR Amount’ system should allow to proceed for post goods issue, with message GR paid.





#### Screen Changes

No change in the existing screen as we are going to create new Pop-up Box to incorporate and make easy visibility to users.

#### Database Changes

#### Navigational Changes

Not applicable.

# High Level Design

As per functional design mentioned

## Detailed Description

As per functional design mentioned

## Design Approach

As per functional design mentioned

### Interfaces functional design

#### Data requirements

#### Data Dependencies

#### Interfaces limitations

#### Delivery requirements

#### Changes Tracking & Triggering processes

#### Volumetric

### Interfaces Technical design

## Configuration Requirement

### SAP Configuration Requirement

### Custom table creation: List each tables and File structure

Details as per excel file attached



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Short Text | Data Element  / Field Type | Field Length | Additional info |
|  |  |  |  |  | |
|  |  |  |  |  | |
|  |  |  |  |  | |

### Standard SAP configuration

### Any Non SAP system configuration reference

## Data Requirement

## Screen

### Parameter / Select options (selection-screen)

As per excel file attached



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Screen Name | | |  | | | |
| TYPE | Field | Field description | | Table | Mandatory / Non-mandatory | Match Code required (Y / N) |
|  |  |  | |  |  |  |
|  |  |  | |  |  |  |
|  |  |  | |  |  |  |

* Field Validations
* Radio Groups
* Check Boxes

### Push Buttons for Drilldown reports on different levels

Not applicable

|  |  |  |  |
| --- | --- | --- | --- |
| Button | Field name | Drilldown from | Drilldown To |
|  |  |  |  |

### Screen Layout (In case of Transactions)

As enclosed

### Navigation Diagram (or Screen flow)

## Layout and Presentation

Section describes layout for SAP form type:



### Sort Options

### Report or file Layout (In case of Reports)

### SAP Form Layout

### Logo for SAP Form in case of non-pre-printed stationary

### Printing of SAP Form:

## Non-EDI Interfaces / Data Mapping

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Target System Name** | **Program / Transaction Name** | **Brief details about usage** | **Scheduled Frequency** | **Variant Definition** | **Tracking Changes** | **Preferred Timeslot** | **Direction Inbound / Outbound** |
|  |  |  |  |  |  |  |  |

## EDI Interfaces

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Target System Name** | **Program / Transaction Name** | **Brief details about usage** | **Scheduled Frequency** | **Variant Definition** | **Tracking Changes** | **Preferred Timeslot** | **Direction Inbound / Outbound** |
|  |  |  |  |  |  |  |  |

## Error Control and Handling

*What errors may occur and how they should be treated.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Message Reference Number** | **Type**  **[I,E,W]** | **Stop Program (Yes/No)** | **Message Text** | **Message Display [Selection screen, Popup, etc.]** | **Conditions Where the Message Should Occur** |
| *999* | *E* | *Yes* | *{ e.g. Account group excluded }* | *End of report* | *{ e.g. If the group is excluded }* |
|  |  |  |  |  |  |

# Assumptions / Limitations

Update of the information into the custom table once the ASN is published by the supplier in SNC portal.

Inbound delivery will be created based on the ASN published by supplier.

If update is done in custom table currently using by the business correctly, then there will no issue in GRN creation through MIGO.

# Security Requirements

## Authorization Groups / Authorization Objects

Please refer to the functional specification for the appropriate security levels.

* ABAP considerations:
* Do any of the programs need special authorization groups, if so, explain?
* Do the users need special security profiles to execute the enhancement, if so, explain?

{E.g. The transaction program will verify that the user has the correct authority on transaction entry.}

## Information Protection

|  |  |
| --- | --- |
| Information Protection  1. Process Criticality  2. Data Sensitivity  3. Application Type | ( ) Mission Critical ( ) Significant ( ) Moderate ( ) Low  ( ) Classified ( ) Confidential ( ) Business ( ) Public  ( ) Role-Based ( ) Analytical ( ) Utility |

For Mission Critical or Significant processes (e.g. global payment terms synchronization, payroll, financial close etc.), inbound and outbound data integrity must be ensured. Describe the method of data transfer that ensures data integrity, if applicable.

Classified and Confidential data (e.g. Banking Interface, Government Applications etc.) must be encrypted before transmission. Describe the means of encryption if applicable.

For Role-based processing, access (e.g. through OM in HR, Analytical for BEx Reports etc.) to databases must be restricted. What security is applied to tables if applicable?

For Role-based processing using Classified or Confidential data, access to the programs must be restricted. What security is used to restrict access to the programs if applicable?

# Internationalization

## Language Requirements

List down the languages in which this Object will be implemented. The text elements needs to be maintained in all the desired languages requested below

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Default Language** | | **English (EN)** | | |
| **Language Key** | **Description** | **Supported for** | | |
| **Data** | **Screen Display** | **Delivered Report** |
| *{ e.g. PT }* | *Portuguese* | Yes / No | Yes / No | Yes / No |
| *{ e.g. ZF }* | *Traditional Chinese* | Yes / No | Yes / No | Yes / No |

Specify if you need language selection on selection screen and default language

## Currency Requirements

List down the currencies for which this Object will be implemented

|  |  |  |  |
| --- | --- | --- | --- |
| **Default Currency** | | **USD** | |
| **Currency Key** | **Description** | **Supported for** | |
| **Data** | **Output** |
| *{ e.g. USD }* | *US Dollars* | Yes / No | Yes / No |
| *{ e.g. INR }* | *Indian Rupees* | Yes / No | Yes / No |

## Legal Requirements

Specify Audit, SOX (or clause 49) requirements here

# Test data and Conditions

Will be provided once the development is completed before start unit testing

# Implementation considerations

## Dependencies

If the object has dependencies on the output of another enhancement, interface, background process, month end close, etc.

## Transitional considerations

{E.g. If change is being implemented in phased manner, provide the impact of phased implementation on lifecycle and logic of the objects and related configuration and data elements}

## Related Documents

{E.g. give the reference or embed of all the documents related to the object}

# Basic assumptions (Notes) and limitations (constraints) of the system

Enter comments/issues that don’t logically fit in one of the other sections of the specification document.

|  |  |  |
| --- | --- | --- |
| No. | Description | Comments / References |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |

# Open issues / Concerns

Enter comments/issues or Concerns that don’t logically fit in one of the other sections of the specification document.

|  |  |  |
| --- | --- | --- |
| Issue No. | Description | Comments / References |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |

# ANNEXURE

|  |  |  |
| --- | --- | --- |
| Field | | Description |
| **General Information** | |  |
|  | <ProjID>FS<identifier> | Document ID : Use suitable alphanumeric identifier for each functional specification |
|  | Module / Program Description | Enter description of Program / Module and related information |
|  | Project Manager / Project Leader | Enter the names of relevant people for accountability |
|  | Business Analyst | Enter name(s) of business analyst(s) working on the specification |
|  | Expected Completion Date | Indicate expected completion date |
|  | Priority | Indicate priority ( Low / Medium / High ) |
| Business Requirement | |  |
|  | Requirements / Technical description | Provide Business Objectives, purpose etc. here |
| High Level Design | |  |
|  | Detailed Description | Provide Statement of Work here along with detailed design approach |
|  | Configuration Requirement | Provide details of related configuration |
|  | Data | Indicate fields and tables with related data. |
|  | Screen | |  |  | | --- | --- | | Parameter select options : Type | Refer table A | | Parameter select options : Field | Enter field name as in SAP system | | Parameter select options : Field Description | Enter field description as in SAP system | | Parameter select options : Table | Enter name of the table | | Parameter select options : Mandatory / Non mandatory | Indicate whether PSO is mandatory(required) or non required entry | | Parameter select options : Matchcode required ( Y/N) | Indicate whether matchcode is required or not. Also indicate fields based on which data is to be selected. | |
|  | Layout and Presentation | |  |  | | --- | --- | | Sort options | Enter sort option details if required | | Push buttons for drill down reports : Button | Description of button, also indicate icon if necessary | | Push buttons for drill down reports : Field | Enter name of the field where cursor is to be placed before ‘pressing’ button for report | | Push buttons for drill down reports : Drill down from | Enter screen no – program name / List from report layout or screen layout from where (further) drill down is required | | Push buttons for drill down reports : Drill down to | Enter destination screen no – program name / List from report layout or screen layout | | Report layout | In case of reports attach report layout as separate sheet and write a note to refer to the attached sheet | | Screen layout | In case of transactions attach screen layout as separate sheet and write a note to refer to the attached sheet | | SAP Form(or Script ) layout | In case of SAP Smart Form (or Script) attach layout as separate sheet and write a note to refer to the attached sheet | | Logo for SAP Form( or Script ) | Enclose logo to be printed as TIF file in version 6 and above | | Printing SAP Form (or Script) | 1. Mention printer details 2. Enclose hardcopy of preprinted stationary | |
|  | Non-EDI Interfaces / Data Mapping | In case of BDC enclose DN01DF with all the details entered for mapping legacy system data on SAP |
|  | EDI Interfaces | Provide EDI config information here |
|  | Error Control and Handling | Provide validation and error handling requirements here |
| Security Requirements | |  |
|  | Authorization Groups / Authorization Objects | Specify specific authorization check requirements here |
|  | Information Protection | Classify data to appropriate level of control here |
| Internationalization | |  |
|  | Language Requirements | Provide multiple language related requirements here |
|  | Currency Requirements | Provide multiple currency related requirements here |
|  | Legal Requirements | Provide Audit, SOX (or clause 49) requirements here |
| Test data and conditions | | Enter test-related data and testing conditions. Enter Menu path for Transaction, Enter details of Test Data / Testcases for program & users. |
| Implementation Considerations | |  |
|  | Dependencies | Provide list of dependent *enhancement, interface, background process, month end close, etc.* |
|  | Transitional considerations | *Provide impact of phased implementation here* |
|  | Related Documents | Embed List of related documents here |
| Basic Assumptions and limitations of the system | | State all the assumptions made / specific notes related to functionality |
| Open issues / Concerns | | Indicate open issues if any |

**TABLE A for Parameter select options: Type**

|  |  |
| --- | --- |
| Type Identifier | Description |
| P | Parameter |
| S | Select |
| Rn | Radio button group with numerical identifier |
| Cn | Check box group with numerical identifier |