

invoice-creation

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Business Logic for Invoice Creation

This document outlines the business rules that govern the processing of invoices in the ERP system, based on an analysis of the RPG programs:

`FO100R`, `FO614R`, `FO190R`, and `FO730R`.

Programs Analyzed:

- `FO100R`: Handles registration of offers/orders.
- `FO614R`: Processes order handling, resting, and sorting.
- `FO190R`: Manages the creation of invoice transactions with alternative invoicing options.
- `FO730R`: Updates and modifies transactions.

Order Processing and Invoice Logic

1. **Order Completion Check** (`FO100R`, `FO614R`)

* **Logic:** Orders can only be finalized if there are no outstanding items or modifications required.

* **File:** `FOHELP` (Order Header File)

* **Field:** `FOKODE`

* **Condition:** An order cannot be finalized if `FOKODE` is set to '1' or '2', indicating either it is already being processed or requires attention.

2. **Invoice Type Check** (`FO100R`, `FO190R`)

* **Logic:** The order type must align with the invoice type invoked by the user.

* **File:** `FOHELP` (Order Header File)

* **Field:** `FOOTYP`

* **Condition:** If the order type is marked as 'T' (offer), it is permitted to be registered even if a credit hold on the customer is in place in `FO100R`.

3. **Historical Data Management** (`FO614R`)

* **Logic:** Implements the historical tracking of inventory changes as well as invoices.

* **File:** `FOHELP`, `FOHIST` (Historical Data File)

* **Field:** `FOEDAT`, `FOTIME`

* **Condition:** Historical data must be updated when an order is either finalized or modified. If there are changes, this will notify the user about required updates through the historical tracking system.

4. **Customer Holds and Permissions** (`FO100R`, `FO614R`, `FO190R`)

* **Logic:** Handling of customer holds based on credit and order type.

* **File:** `FOHELP`, `FOCUS` (User Permissions File)

* **Field:** `FOSUFF`, `FOCUS`

* **Condition:** An order cannot proceed if the customer has exceeded their credit limit unless the order type is classified as 'T'. This is particularly focused on ensuring financial compliance.

5. **Pack Slip Generation** (`FO100R`, `FO730R`)

* **Logic:** Prevents reprinting of packing slips if already generated.

* **File:** `FOHELP` (Order Header File)

* **Field:** `FOPAKS`

* **Condition:** If `FOPAKS` is set to '1' (indicating a packing slip was generated previously), the system should skip this order from reprocessing.

6. **Order Type Override on Customer Level** (`FO100R`, `FO614R`)

* **Logic:** Customer types can dictate whether specific order types are allowable.

* **File:** `FOHELP` (Order Header File)

* **Field:** `FOOTYP`

* **Condition:** If the customer type is marked as 'K', the system can enforce restrictions on the order types that can be processed.

Subprogram Calls Affecting Logic

Beyond direct file checks, several external subprograms are called that play a significant role in the workflow.

1. **`FO730R` (Update Order Processing)**
 - * **Trigger:** Called within both `FO100R` and `FO614R` when an order is either finalized or modified.
 - * **Logic:** Updates order information and recalculates relevant fields based on changes.
 - * **Impact:** Ensures that both orders being finalized and those modified have their details correctly registered.
2. **`FO190R` (Alternative Invoicing)**
 - * **Trigger:** Invoked from `FO614R` during invoice creation.
 - * **Logic:** Manages specifics of invoice creation, including retrieval of pricing data and validation against customer and order types.
 - * **Impact:** Affects the method and type of invoicing available based on business rules pertaining to customers and invoice types.
3. **`VA640R` (Pricing Updates)**
 - * **Trigger:** Called from `FO614R` during the order handling phase.
 - * **Logic:** Updates price detail based on customer agreements and overrides.
 - * **Impact:** Ensures accurate and compliant pricing for customers which supports dynamic invoicing needs.
4. **`AA005R` (Notification Management)**
 - * **Trigger:** Called in `FO100R` and `FO614R` to provide feedback to the user in case of errors or warnings.

* **Logic:** Displays messages and prompts based on conditions such as credit holds or invalid order types.

* **Impact:** Influences user interactions and responses in processing orders and invoices.

By assessing these programs, we see an interconnected workflow focused on ensuring compliant, accurate, and user-friendly order processing and invoicing practices. The rules laid out in each program uphold overall business integrity and customer relationship quality while maintaining regulatory obligations.