

invoice-processing

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Business Logic for Invoice Processing

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

`FO605R` and `FO709R`.

Programs Analyzed:

- `FO605R`: Starts the generation of order documents tailored for invoices and credit notes.
- `FO709R`: Updates order header parameters for the order that is being processed.

Order Processing Rules

1. **Direct Print Option** (`FO605R`)

* **Logic:** The program checks whether an order number is provided to decide if direct printing is allowed.

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

* **Field:** `p_nummm`

* **Condition:** If `p_nummm` is equal to `*ZERO`, direct printing will not be triggered. This ensures that only valid orders proceed to printing.

2. **Period and Invoice Date Validation (`FO605R`)**

* **Logic:** Validates the provided period and invoice date entered by the user.

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

* **Field:** `f2peri`, `f2dato`

* **Condition:** The program checks that the `f2peri` cannot be less than the "completed period" (from stored statuses) and that the `f2dato` must be a valid date within the specified period. If these conditions are not met, appropriate error flags are set to prompt user intervention.

3. **Updating Order Header Parameters (`FO709R`)**

* **Logic:** Updates the order header with the current user's details and time.

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

* **Field:** `fokous`, `fokows`, `fokoda`, `fokoti`

* **Condition:** The record in `FOHELF` for the order number specified is updated only if the order exists (`*in90 = *off`). This ensures that updates occur only on valid entries.

4. **Subprogram Calls and Workflow (`FO605R`, `FO709R`)**

* **Workflow Relationship:** The validation performed in `FO605R` can

lead to a call to the print control program `FO612C` after parameters are set correctly, thus linking it directly to the print process. *
Program Interaction: `FO605R` will first process and validate inputs, and then upon completing its execution logic, it may trigger `FO709R` to update the order parameters, ensuring the involvement of the latest parameters during the print process.

5. **Error Handling and User Notifications (`FO605R`)**

* **Logic:** Various user input checks provide feedback when data does not meet validation standards.

* **Error Flags:** Multiple error flags are documented (e.g., `*in31`, `*in32`, `*in33`, etc.) indicating specific issues with date validation, aversion criteria, and printing options. This notifies the user to rectify any anomalies before further processing.

Subprogram Calls Affecting Logic

Beyond direct file checks, several key subprograms are involved that play significant roles in determining the correct workflow.

1. **`FO612C` (Print Control Program)**

* **Trigger:** Called from `FO605R` when invoice processing is validated and ready for output.

* **Logic:** Initiates the actual printing of documents based on parameters passed from `FO605R`.

* **Impact:** This program is essential as it brings to completion the invoice generation process started by `FO605R`.

2. **`FA730R` and `FA720R` (Order and Job Update Programs)**

* **Trigger:** Also called from `FO605R`.

* **Logic:** These programs check and set flags for whether another process is running concurrently that might interfere with invoice issuance or order modifications.

* **Impact:** Ensures that any ongoing operations connected to the ordering system do not conflict with new tasks initiated.

Overall, `FO605R` is responsible for initializing the prints of invoices and conducting validation checks, whereas `FO709R` ensures that the order headers are updated correctly with user actions. The integration of error handling emphasizes user feedback, while inter-program calls create a coherent flow necessary for complex processing, enhancing the overall invoice workflow within the ERP system.