

# invoice-creation

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# Business Logic for Invoice Creation

This document outlines the business rules that govern the invoice creation process, based on an analysis of the RPG programs `F0602R` and `F0603R`. The primary focus is on the conditions that will **block** an order from being processed for invoicing, as well as the differences and interactions between the two programs.

The core logic for invoice creation is contained within the `oppord` subroutine in `F0602R` and the `oppord9` subroutine in `F0603R`. An order must pass all the following checks to be processed for invoicing.

## Order Status and Header Rules

1. **Order Already Being Processed** (`F0602R`, `F0603R`)

\* **Logic:** An order is skipped if it is already flagged as being under treatment.

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

\* **Field:** `FOKODE`

\* **Condition:** The process will not select an order if `FOKODE` is not equal to `\*ZERO`. This indicates the order is locked by another process.

2. **Incorrect Order Type** (`F0602R`, `F0603R`)

\* **Logic:** The order's type must match the type selected by the user for the batch job.

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

\* **Field:** `FOOTYP`

\* **Condition:** - In `F0602R`, the order's `FOOTYP` must match the `d0foty` parameter.

- In `F0603R`, the order's `FOOTYP` must be present in the `oty` array of selected order types.

3. **Order Without Lines** (`F0602R`, `F0603R`)

\* **Logic:** Orders with no lines are deleted before processing.

\* **File:** `FODTLR` (Order Detail File)

\* **Field:** `FONUMM`, `FOSUFF`

\* **Condition:** If no lines are found for the order, the order is deleted by calling the `FO410R` program. This logic is implemented in both programs.

4. **Order Info Code Blocking Invoice** (`F0602R`, `F0603R`)

\* **Logic:** If the order has an info code that blocks invoicing, it is skipped.

\* **File:** `VINFL1` (Order Info File)

\* **Field:** `VAIFAK`

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* **Condition:** If `VAIFAK` is ``1`` and the process is for invoicing  
(`VAOAKK = 3`), the order is skipped.  
5. **User Authorization for Invoicing (`FO602R`, `FO603R`)**  
* **Logic:** Only authorized users can initiate invoicing.  
* **File:** `FUSRL1` (User Authorization File)  
* **Field:** `FBKO08`  
* **Condition:** If `FBKO08` is not equal to `1` and the process is for  
invoicing (`VAOAKK = 3`), the order is skipped.  
6. **Packing Slip Reprinting (`FO602R`)**  
* **Logic:** Prevents a packing slip that has already been generated  
from being printed again.  
* **File:** `FOHELF` (Order Header File)  
* **Field:** `FOPAKS`  
* **Condition:** If the `FOPAKS` flag is ``1`` and the user is running  
the process to generate packing slips (`VAOAKK = 2`), the order is  
skipped. Note: This check is commented out in the newer `FO603R`  
program.  
7. **Deposit Requirement (`FO602R`, `FO603R`)**  
* **Logic:** Orders with unpaid deposits are skipped.  
* **File:** `SDEPL1` (Deposit File)  
* **Field:** `SKDEPB`, `SKDEPO`  
* **Condition:** If the deposit balance (`SKDEPB`) is less than the  
required deposit (`SKDEPO`), the order is skipped.  
8. **Mix of Order Types (`FO603R`)**  
* **Logic:** Ensures that only orders of the same type are processed  
together.  
* **File:** `VOTYLL` (Order Type File)  
* **Field:** `VAOOKO`, `VAOSTA`  
* **Condition:** If there is a mix of order types with different "OKO"  
or "STA" statuses, the process is blocked. This check is not present in  
`FO602R`.  
## Special Conditions (Program-Specific)  
9. **Collective Invoicing (`FO602R`)**  
* **Logic:** Allows collective invoicing of debit and credit orders.  
* **File:** External program `CO402R`  
* **Condition:** If `CO402R` returns `CO402_VERDIL = '1'`, collective  
invoicing is enabled. This logic is not present in `FO603R`.  
10. **Order Type Validation (`FO603R`)**  
* **Logic:** Validates that the next order type is valid for processing.  
* **File:** `VOTYLL` (Order Type File)  
* **Field:** `VAONXT`  
* **Condition:** The next order type (`VAONXT`) must match the expected
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type. This validation is more extensive in `FO603R` compared to `FO602R`.

## ## Subprogram Calls Affecting Logic

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

### 1. \*\*`FO410R` (Delete Orders with No Lines)\*\*

\* \*\*Trigger:\*\* Called when an order has no lines.

\* \*\*Logic:\*\* Deletes the order and logs the reason.

\* \*\*Impact:\*\* Ensures that only valid orders with lines are processed.

This is implemented in both `FO602R` and `FO603R`.

### 2. \*\*`FO709R` (Mark Orders as Under Processing)\*\*

\* \*\*Trigger:\*\* Called after an order passes all checks.

\* \*\*Logic:\*\* Updates the order header to mark the order as being processed.

\* \*\*Impact:\*\* Prevents duplicate processing of the same order. This is implemented in both programs.

### 3. \*\*`CO402R` (Collective Invoicing)\*\*

\* \*\*Trigger:\*\* Called in `FO602R` to determine if collective invoicing is enabled.

\* \*\*Logic:\*\* Returns a flag indicating whether debit and credit orders can be processed together.

\* \*\*Impact:\*\* Allows for more flexible invoicing options. This is not called in `FO603R`.

### 4. \*\*`FO605R` (Finalize Order Processing)\*\*

\* \*\*Trigger:\*\* Called at the end of processing in `FO603R`.

\* \*\*Logic:\*\* Finalizes the processing of selected orders.

\* \*\*Impact:\*\* Ensures that all selected orders are properly processed and logged. This is not explicitly called in `FO602R`.

## ## Key Differences Between `FO602R` and `FO603R`

### 1. \*\*Order Type Handling:\*\*

- `FO602R` uses the `d0foty` parameter to validate order types.

- `FO603R` uses the `oty` array and performs additional checks to ensure consistency among order types.

### 2. \*\*Packing Slip Reprinting:\*\*

- `FO602R` blocks reprinting of packing slips (`FOPAKS` check).

- This check is commented out in `FO603R`.

### 3. \*\*Collective Invoicing:\*\*

- `FO602R` supports collective invoicing via `CO402R`.

- `FO603R` does not include this functionality.

### 4. \*\*Mix of Order Types:\*\*

- `FO603R` includes logic to block processing if there is a mix of incompatible order types.

- This logic is not present in `FO602R`.

## 5. \*\*Next Order Type Validation:\*\*

- `FO603R` performs more extensive validation of the next order type (`VAONXT`) compared to `FO602R`.

### ## Summary

The programs `FO602R` and `FO603R` share a common goal of processing orders for invoicing, but they differ in their implementation and scope. `FO602R` includes legacy logic and additional features like collective invoicing, while `FO603R` introduces stricter validation and enhanced handling of order types. Both programs rely on external subprograms like `FO410R` and `FO709R` to manage order processing effectively.