AccountMate
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Article # 1110

Technical Note: **Understanding the Reasons for the Repetitive Demand for Inventory Recalculation during Freeze Inventory**

Difficulty Level: Advanced Level AccountMate User
Intermediate Level MSSQL Programmer

Version(s) Affected: AccountMate 7 for SQL and Express
AccountMate 6.5 for SQL and MSDE

Module(s) Affected: Inventory Control

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DESCRIPTION

There are times when inventory data becomes corrupted due to crashes and other types of failures that may occur in your AccountMate system. When performing Physical Inventory Count, the system checks for the state of the inventory data and, if it detects problems and conflicting information in the relevant tables, it will prompt the user with the following message or a variation thereof: *"Please run Recalculate Inventory Data* before freezing any inventory."*

Normally, inventory recalculation takes care of the data corruption; however, there are times when the nature of the problem is beyond what this routine can handle. At such times, the system will go into a loop where it will keep prompting you to perform inventory recalculation until the data problem is sufficiently addressed. This technical note is written to help you properly diagnose the nature of the inventory data problem so that you can effect the necessary corrections and proceed with your physical inventory count.

*NOTE: Be sure to perform a back up of your data immediately prior to performing recalculation or manipulating information in the data tables.

SOLUTION

The message prompting you to recalculate inventory before you perform the freeze is caused by a validation that is being carried out in the AccountMate system. This validation is designed to ensure, where required, that all inventory item records are unique; and that consistent information exists in the relevant, related Inventory Control (IC) tables.

The sections that follow will discuss this validation process in terms of:
- the tables that are directly verified

- the condition of data in these tables that will give rise to the demand for a recalculation, and
- the other IC table that will affect the data in the tables that are validated during Freeze Inventory

A. Tables Directly Validated

To understand the circumstances that trigger the demand for recalculation when you freeze inventory, you must first know what IC tables are being validated. The following tables are directly validated at this stage of the Physical Inventory Count:

1. Inventory Warehouse File (ICIWHS)

This table holds information pertaining to each warehouse that carries a particular inventory item record. Each inventory item will show a separate record for every warehouse in which the item is stocked. Information from the following ICIWHS fields is used during the validation process:

- Item #
- Warehouse
- Specification Codes 1 and 2 (where applicable)
- Warehouse On-hand Quantity

2. Inventory Bin File (ICIBIN)

This table holds information pertaining to the bins in each warehouse that stock an item and the quantities stored in each bin. There is a separate record for each bin in each warehouse that carries the item. Information from the following ICIBIN fields is used in the validation process:

- Item #
- Warehouse
- Bin
- Specification Codes 1 and 2 (where applicable)
- Bin On-hand Quantity

3. Inventory Serialization File (ICITSN**)

This table holds detailed information pertaining to those serialized items that use the "Specific ID" cost method. Each serialized item unit has a separate record in this table, regardless of whether a serial number has actually been assigned to the unit or not. Ideally, the bin and warehouse quantities in the ICIBIN and ICIWHS tables for serialized items should be supported by a corresponding number of records in ICITSN. Thus, if ICIBIN shows that there are 3 units of Item# Serialized Item in the Master Bin, there should also be 3 entries in ICITSN for Serialized Item stored in the Master Bin.

Information from the following ICITSN fields is used during validation:

- Item #
- Warehouse
- Bin

- Specification Codes 1 and 2 (where applicable)

**NOTE: *Starting with AccountMate 7 for SQL/Express, this table is merged into the Inventory Transaction Specification table (ICITSP); thus if you are using AccountMate 7 for SQL/Express, all reference to ICITSN in this document should be considered as ICITSP*

4. **Inventory Transaction Specification File (ICITSP)**

   This table holds detailed information for lot-controlled items and kit items that require pre-building. Each kit item unit will have a separate record in this table; however, lot-controlled items are grouped together according to the lot numbers assigned to them or, in the absence of a lot number, the transactions that provided the lot-controlled item records (i.e., PO receipt, MI finished job, etc). Just as in the case of ICITSN, ICITSP should have sufficient records to support the on-hand quantities shown in ICIBIN and ICIWHS for lot-controlled and/or kit items.

   Information from the following ICITSP fields is used upon validation:

   - Item #
   - Warehouse
   - Bin
   - Specification Codes 1 and 2 (where applicable)
   - On-hand Quantity

B. Conditions That May Trigger the Demand for Inventory Recalculation

   The validation that is performed during Freeze Inventory checks for the following:

1. **Matching item records in IC tables**

   - <u>Missing or duplicate item records in either ICIWHS or ICIBIN</u>

     When an item record exists in ICIWHS but not in ICIBIN (and vice versa) or when there are duplicate records in either table, these trigger the system to request recalculation. The system checks to be sure that these two tables have matching values in the following fields for the same item record: *Item#*, *Warehouse, Specification Codes 1 and 2 (if applicable)*.

   - <u>Missing or duplicate item records in either ICIBIN or ICITSN/ICITSP</u>

     The system requests recalculation when any one of the following conditions exists:

     o ICIBIN shows that a serialized item is supposed to exist in a given Warehouse/Bin but no record exists in ICITSN for the said item in the said Warehouse/Bin, and vice versa
     o ICIBIN shows that a lot-controlled or kit item requiring prebuild is supposed to exist in a given Warehouse/Bin but no record exists in ICITSP for the said item in the said Warehouse/Bin, and vice versa
     o Duplicate records in ICIBIN, ICITSN or ICITSP (whichever of the latter two is applicable)

The system also checks for matching values in the following fields for the same item record: *Item#*, *Warehouse*, *Bin*, *Specification Codes 1 and 2 (if applicable)*.

2. Matching on-hand quantities in IC tables

- Item records with conflicting on-hand quantities in ICIWHS and ICIBIN

  When an item record exists in both ICIWHS and ICIBIN but has a Warehouse On-hand Quantity that is different from the sum of the item's Bin On-hand Quantities in that warehouse, the system will prompt for recalculation. The system checks that these two tables have matching values in the following fields for the same item record: *Item#*, *Warehouse*, *Specification Codes 1 and 2 (if applicable)*.

- Item records with conflicting on-hand quantities in ICIBIN and ICITSN or ICIBN and ICITSP

  The system prompts for recalculation when any one of the following conditions exists:

  - ICIBIN shows that a serialized item is supposed to have *N* Bin On-hand Quantities in a given Warehouse/Bin and no record exists in ICITSN for the said Warehouse/Bin, and vice versa
  - ICIBIN shows a Bin On-hand Quantity for a serialized item in a given Warehouse/Bin that is different from the total number of records of that same item in ICITSN for the said Warehouse/Bin
  - ICIBIN shows that a lot-controlled or kit item requiring prebuild is supposed to have *N* Bin On-hand Quantities in a given Warehouse/Bin and no record exists in ICITSP for the said Warehouse/Bin, and vice versa
  - ICIBIN shows a Bin On-hand Quantity for a lot-controlled or kit item (requiring prebuild) in a given Warehouse/Bin that is different from the sum of the records of that same item in ICITSP for the said Warehouse/Bin

  The system also checks for matching values in the following fields for the same item record: *Item#*, *Warehouse*, *Bin*, *Specification Codes 1 and 2 (if applicable)*.

C. IC Table that Indirectly Affects Freeze Inventory

There is one other IC table which, although not directly validated during Freeze Inventory, may nevertheless affect your ability to proceed with your physical count. This table is called the **Inventory Transaction File (ICITRS***)**.

ICITRS carries not only on-hand quantity information; it also carries cost information. This table is used to update the on-hand quantities and cost values in ICIWHS during inventory recalculation, thereby indirectly affecting your ability to freeze inventory.

The manner in which records are stored in ICITRS depends upon the **Cost Method** assigned to the inventory item:

1. Average or Average with S/N

Average or Average with S/N cost items will have only one record in this table for each warehouse in which they are carried. The total quantity carried for such an item in the said warehouse will be shown in the On-hand Quantity field.

2. **FIFO/LIFO**

A separate record will be kept for each FIFO/LIFO price group for each warehouse in which the FIFO/LIFO item is carried. The total quantity remaining from each FIFO/LIFO price group for each item in each warehouse will be shown in the On-hand Quantity field.

3. **Specific ID**

A separate record for each unit of a serialized item will be kept in this table, regardless of whether a serial number has been assigned to the said unit or not. The On-hand Quantity will, therefore, show a value of 1 for each entry that represents a serialized item unit.

*****NOTE:** Beginning with AccountMate 7 for SQL/Express, this table is renamed to ICICST.*