

Technical Bulletin

ScanMaster: Direct FM Operations

SM-TECH-05:15
March 30, 2005

The attached presentation provides detailed information regarding how to work with the ScanMaster direct FM system.

To Your Success,

Bart

Bart Woodbridge
ScanMaster Technical Specialist

This document and information are supplied to StoreNext Retail Technologies personnel and third parties to assist them in doing business with StoreNext. They are not to be used or distributed for any other purpose.

StoreNext Retail Technologies LLC endeavors to ensure that the information in this document is correct and fairly stated, but does not accept liability for any error or omission.



Native ScanMaster Mobile FM For 2.1.x Systems

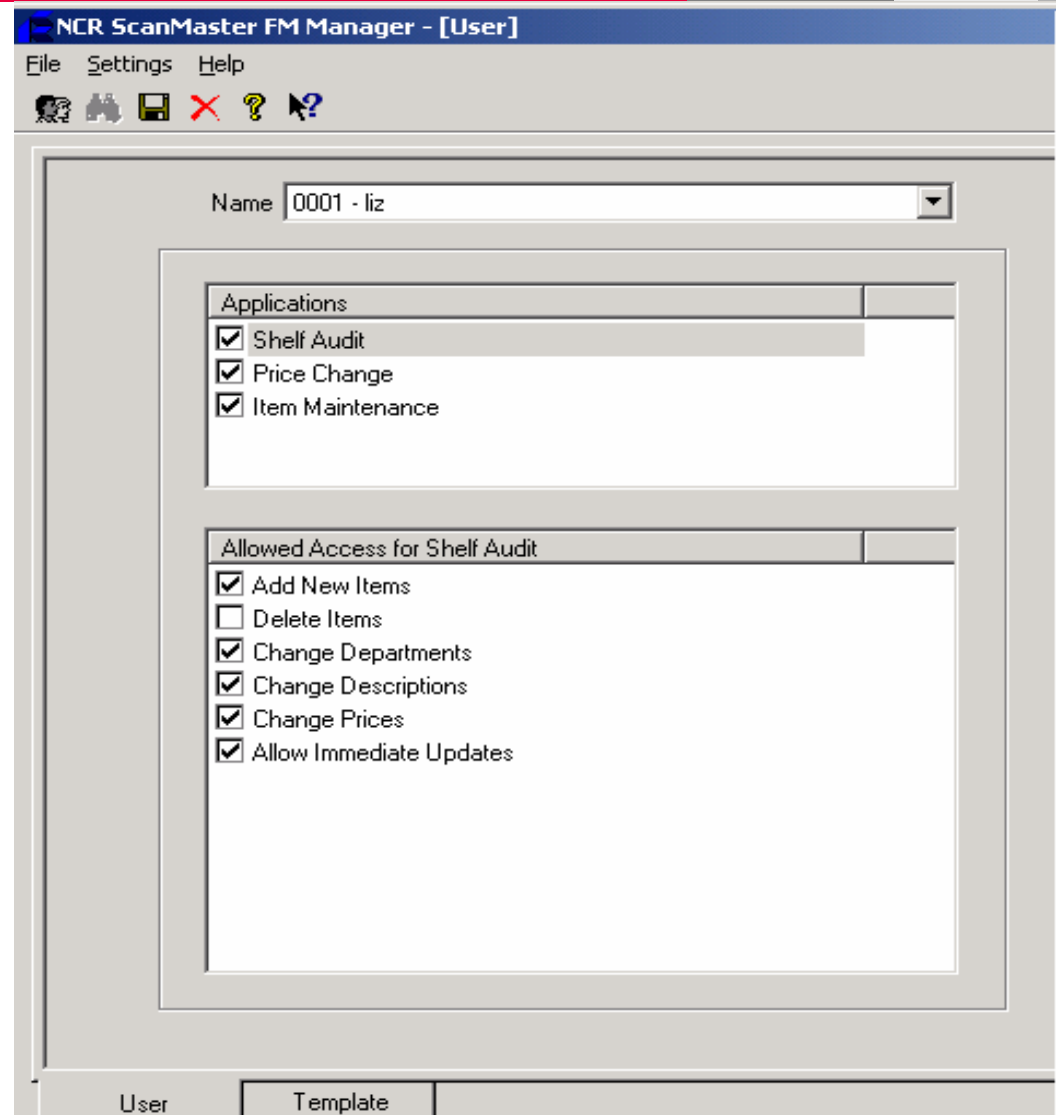
FM Manager Overview

- Executable: SM2FMMGR.EXE
- Configuration of users and templates
- Accesses Btrieve files:
 - GR2FMDTL.BTR
 - GR2FMEMP.BTR
 - GR2FMHDR.BTR
 - GR2FMPFL.BTR
 - GR2FMSEC.BTR
 - GR2FMTMP.BTR
- Holds configuration settings previously controlled by the registry.
- Resides in System Services\Third Party Menu.

FM Manager – User tab

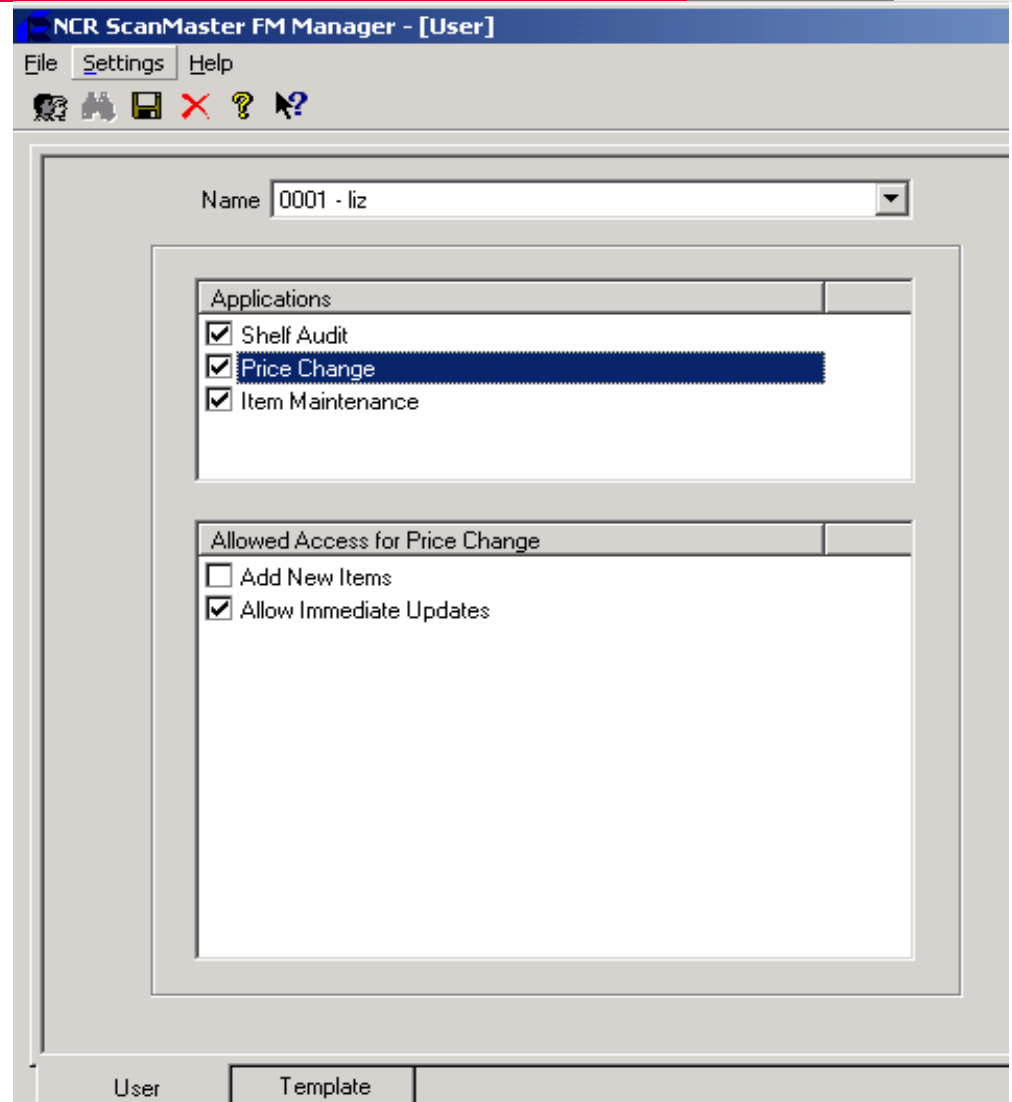
Actions in bottom box can be allowed or restricted.

These options display when Shelf Audit is selected at top.



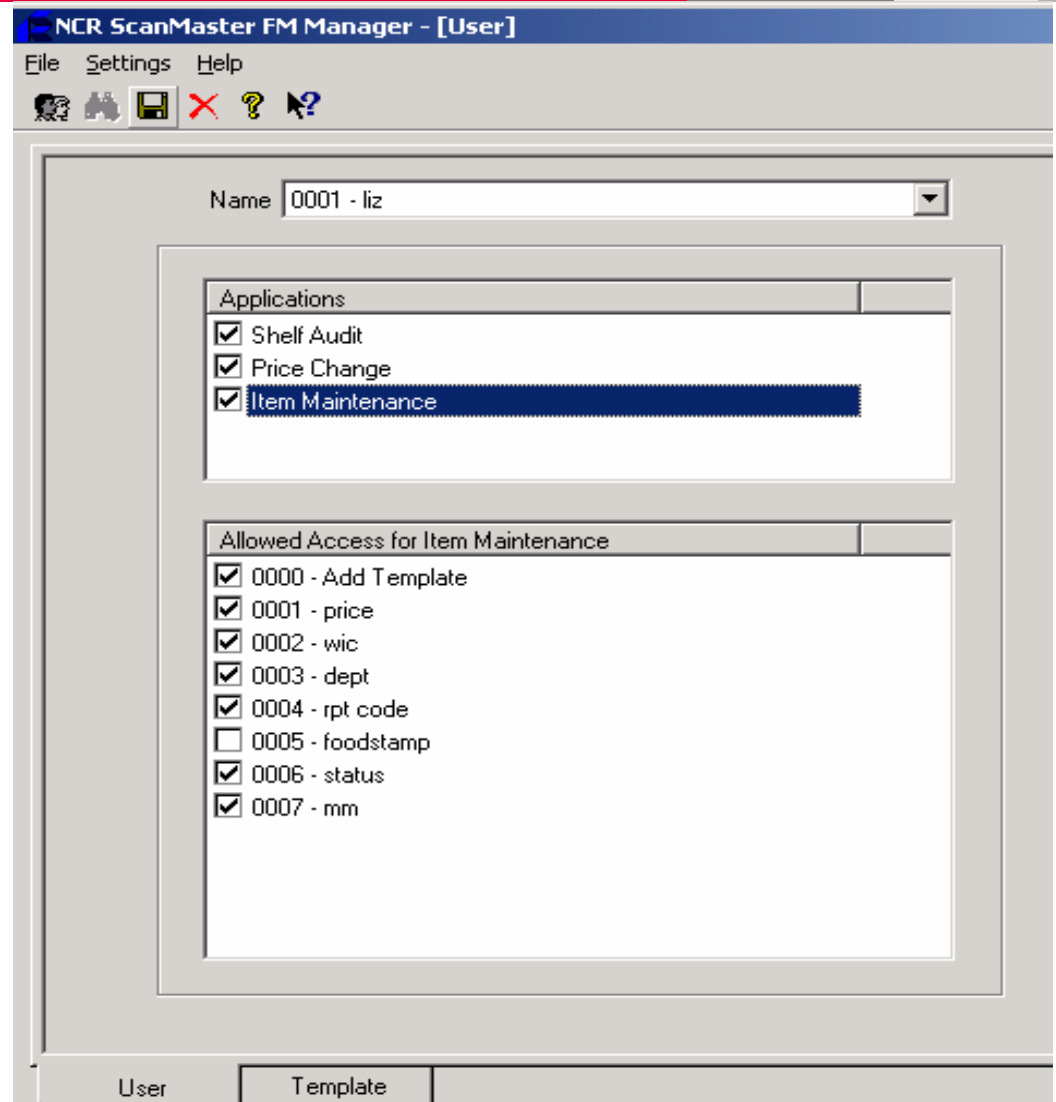
FM Manager – User Tab

These are the Price Change options that can be allowed or restricted



FM Manager – User Tab

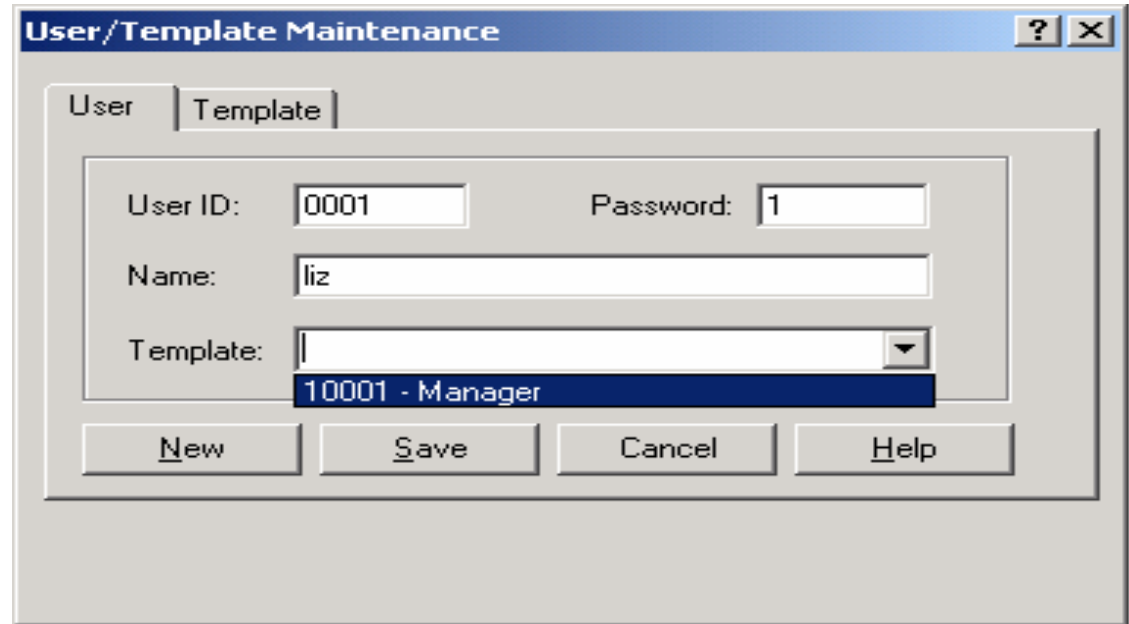
Item Maintenance actions involve field templates that can be allowed or restricted. These are created in the Template tab.



FM Manager – Add/Edit users

By clicking the users button on the main screen, users can be added or edited.

The manager template refers to access given to a group of users.

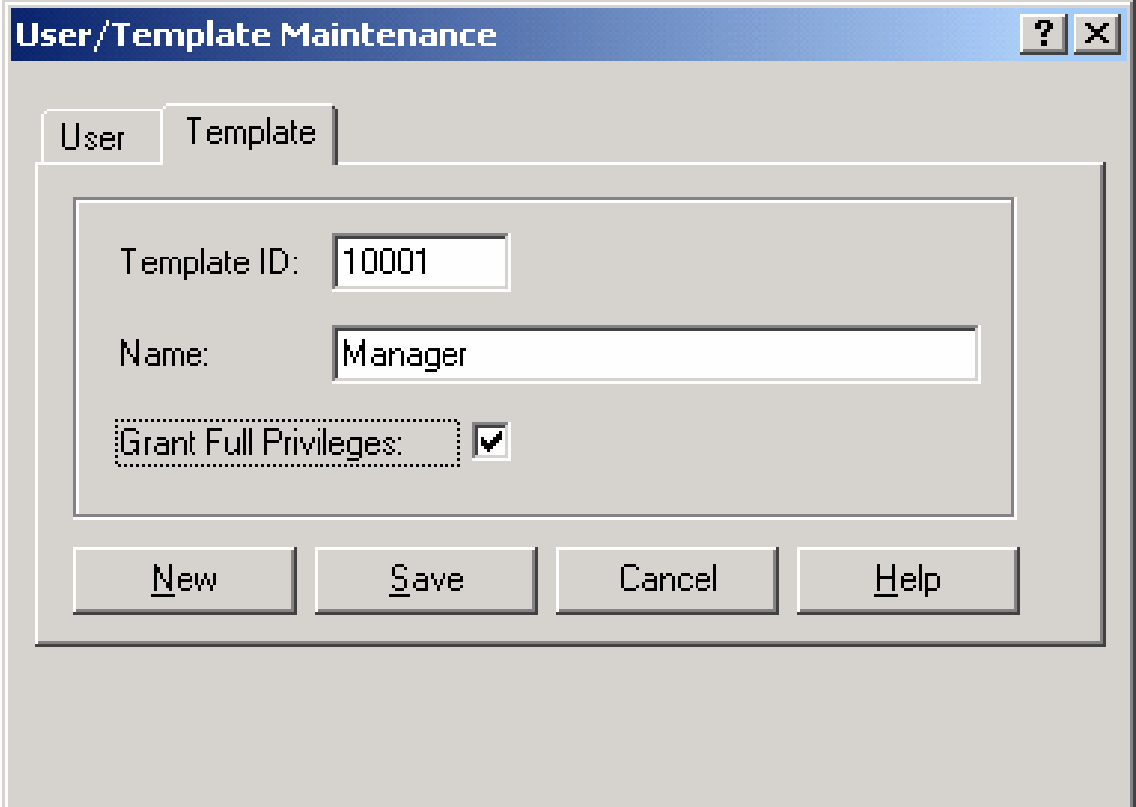


The screenshot shows a dialog box titled "User/Template Maintenance" with two tabs: "User" and "Template". The "User" tab is selected. The dialog contains the following fields and controls:

- User ID: 0001
- Password: 1
- Name: liz
- Template: A dropdown menu with "10001 - Manager" selected.
- Buttons: New, Save, Cancel, Help.

FM Manager – User Templates

User templates can be used to give a group of users the same access. The Grant Full Privileges checkbox is available as well.



The screenshot shows a dialog box titled "User/Template Maintenance" with a blue title bar containing a help icon and a close icon. The dialog has two tabs: "User" and "Template", with "Template" selected. The main area contains the following fields:

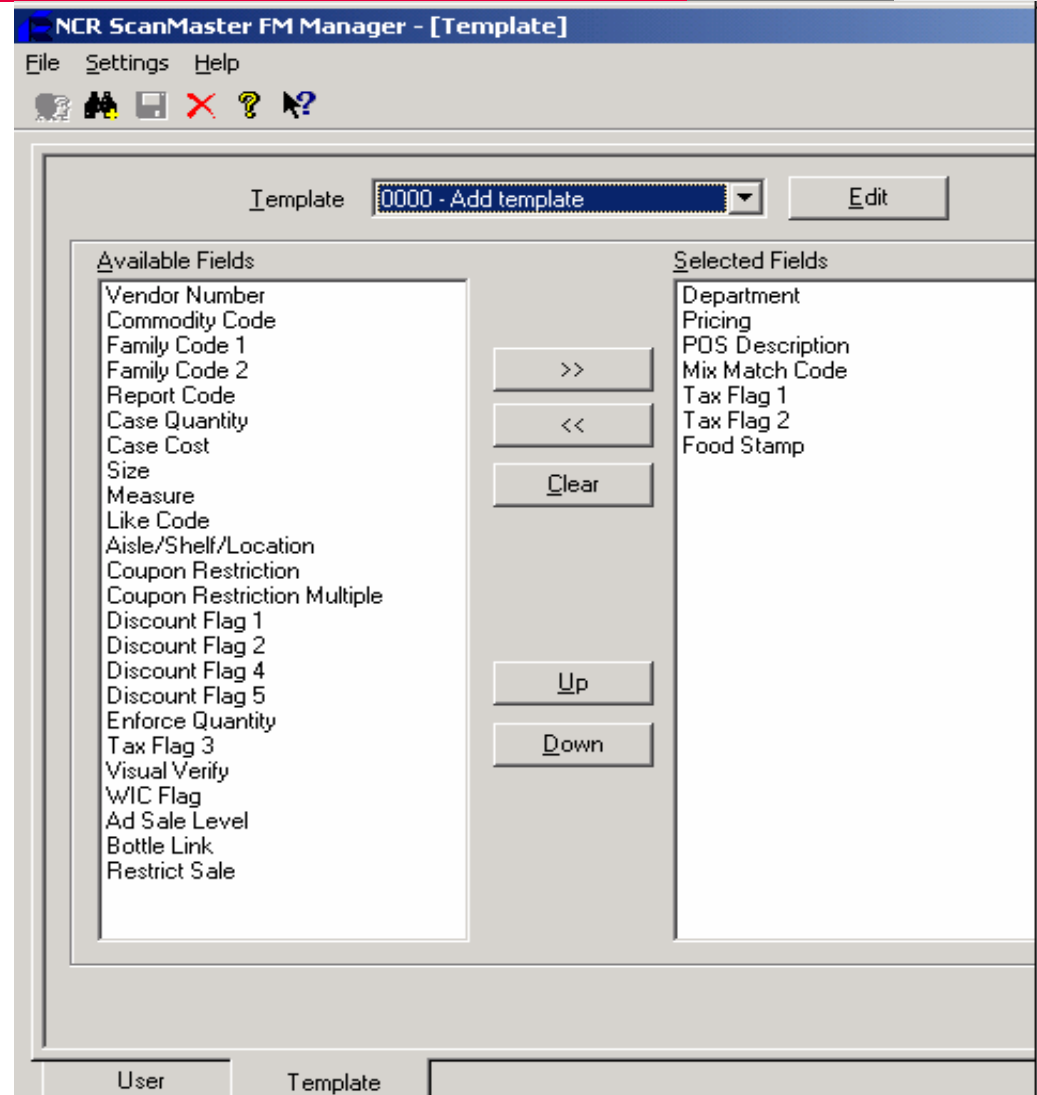
- Template ID: 10001
- Name: Manager
- Grant Full Privileges:

At the bottom of the dialog are four buttons: "New", "Save", "Cancel", and "Help".

FM Manager – Field Templates

Add template includes the fields that will be edited for new items.

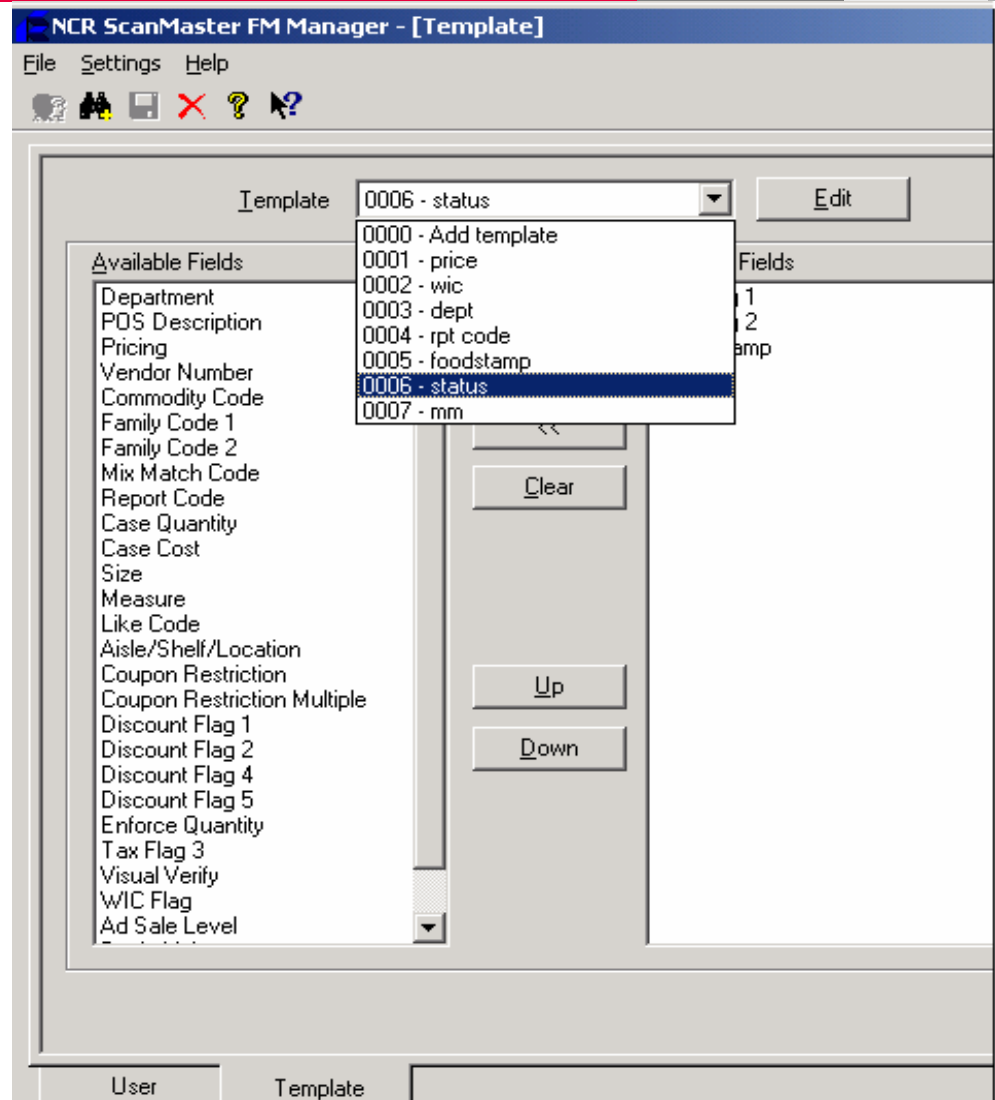
Templates can be edited with the >> and << buttons, and the order of fields can be switched with the Up and Down buttons.



FM Manager – Field Templates

The drop down box shows the available templates to be edited. These are all user defined.

New templates can be added with the Find/Add button below "Settings".



FM Manager – Radio Settings

These settings are for the communication of the fm unit with the PC on which the fm service is running.

These settings are accessible from the Settings menu in the main FM Manager Screen.

Settings Dialog

Radio Settings

Radio Type: Norand Telxon Ansi

Number of Columns: 16

Number of Rows: 7

FM Configuration

COM Port: COM1

COM Parameters: 9600,E,7,1

Scanner Enable: YYYYYYYYYYYY

FM Exec Path: C:\Grocery

Btrieve Files Path: \\SERVER\SCAN1DOS

Debug Level: 0

TCP Port: 5123

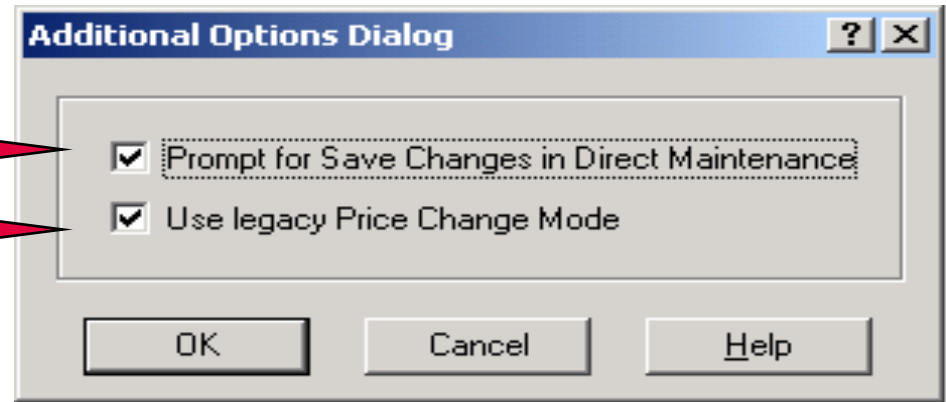
OK Cancel Help

FM Manager – Other Settings

Checking this box will add an additional prompt when doing any direct maintenance.



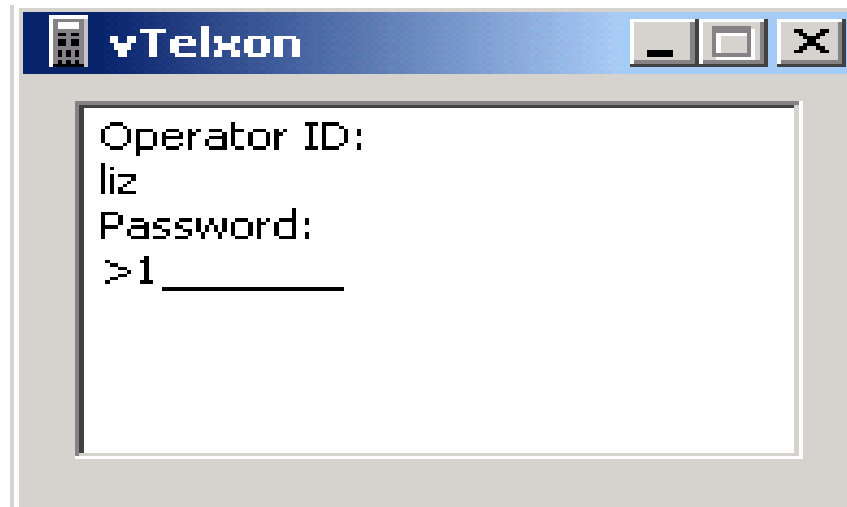
Checking this box will allow for legacy price change mode (N2/100/60). Otherwise, the EFM price change mode is Q2P100U60.



Logon and Main Menu

1. Power the handheld on.
2. Enter an operator ID and press enter.
3. Enter a password and press enter.
4. Select from the following applications:
 1. Shelf Audit
 2. Price Change
 3. Item Maintenance

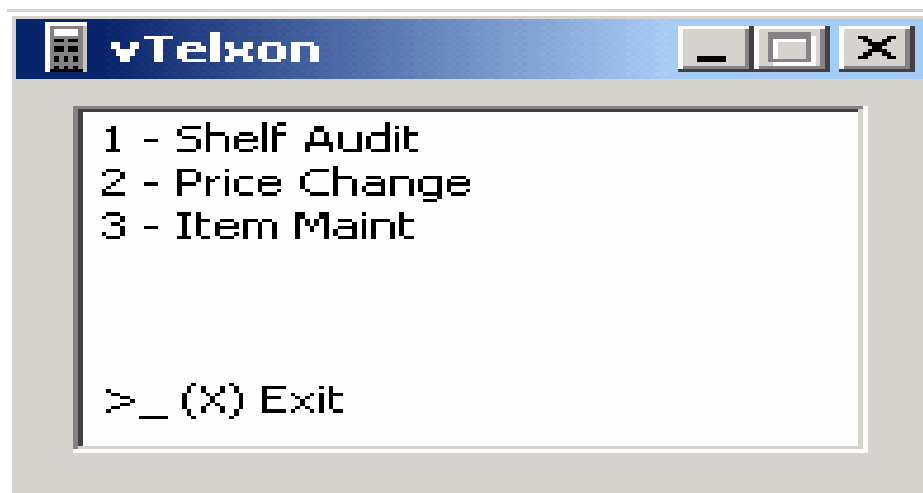
Login Screen



A screenshot of a Windows-style login window titled "vTelxon". The window has a blue title bar with a calculator icon on the left and minimize, maximize, and close buttons on the right. The main content area is white and contains the following text:

Operator ID:
liz
Password:
>1 _____

Main Menu



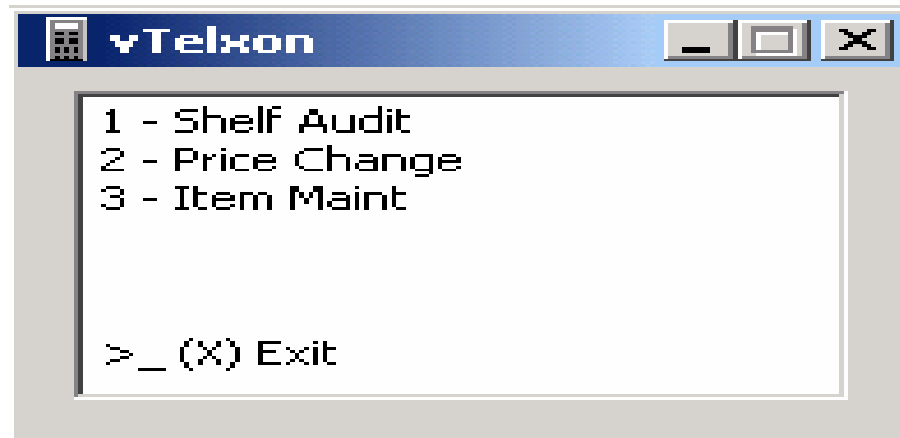
Shelf Audit Overview

- Executable: SM2FMSHF.EXE
- Batching and direct maintenance
- Continuous scanning without key entry
- Delete items through a batch (K)
- Create Tag batch (T)
- Add items not on file (A)

Shelf Audit – available fields

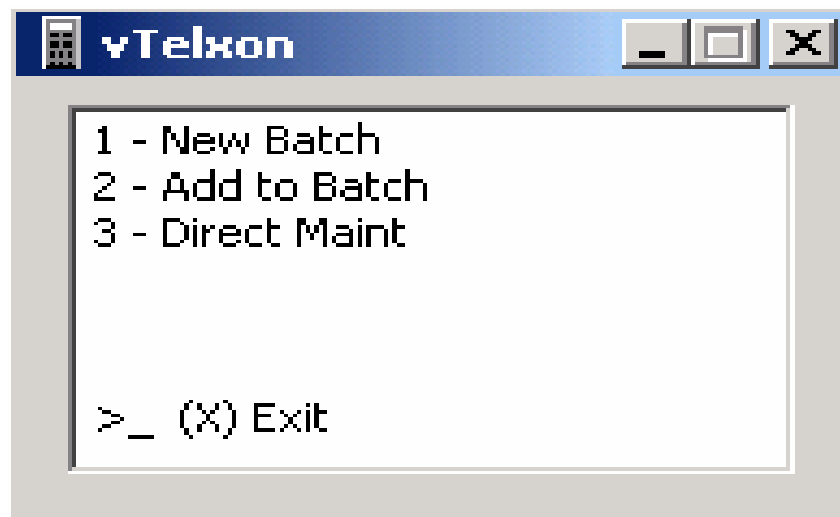
- Limited item changes may also be done using batch mode or direct mode.
 - C – change price
 - Z – change size
 - M – change unit of measure
 - D – change department
 - S – change subdepartment
 - R – change register descriptor

Shelf Audit – New Batch



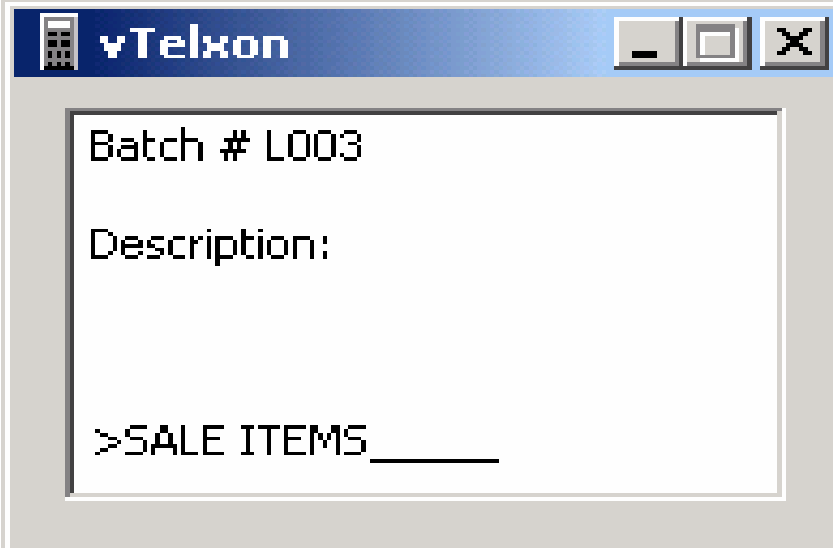
1. Select Shelf Audit (1) from the Main Menu and press enter.

Shelf Audit – New Batch



2. Select New Batch (1) from Shelf Audit menu and press enter

Shelf Audit – New Batch

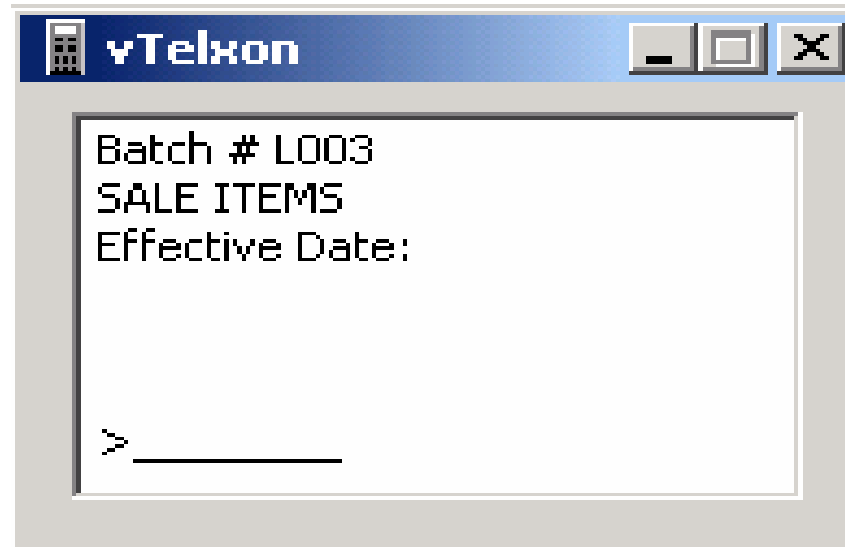


The screenshot shows a terminal window titled "vTelxon" with a calculator icon on the left and standard window controls on the right. The terminal content is as follows:

```
Batch # L003  
Description:  
  
>SALE ITEMS_____
```

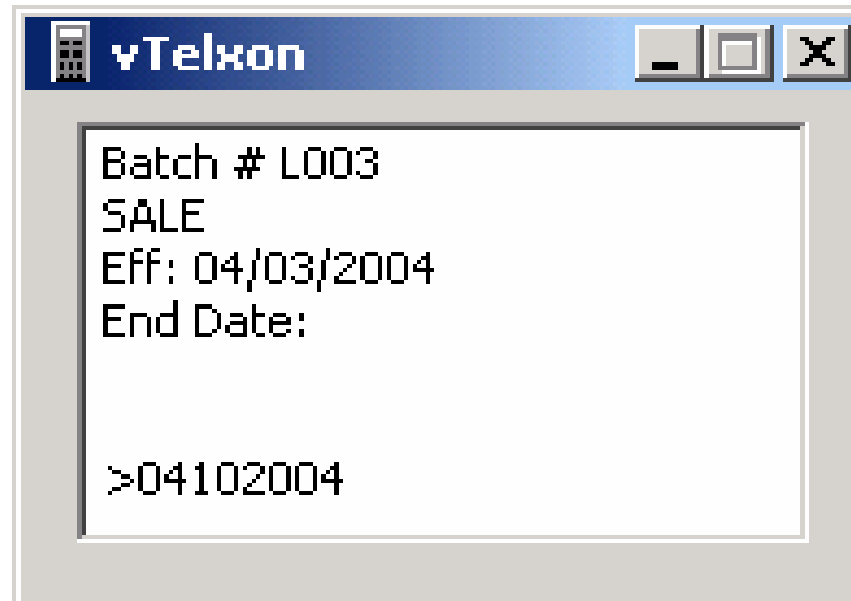
3. Enter a description for the batch and press enter.

Shelf Audit – New Batch



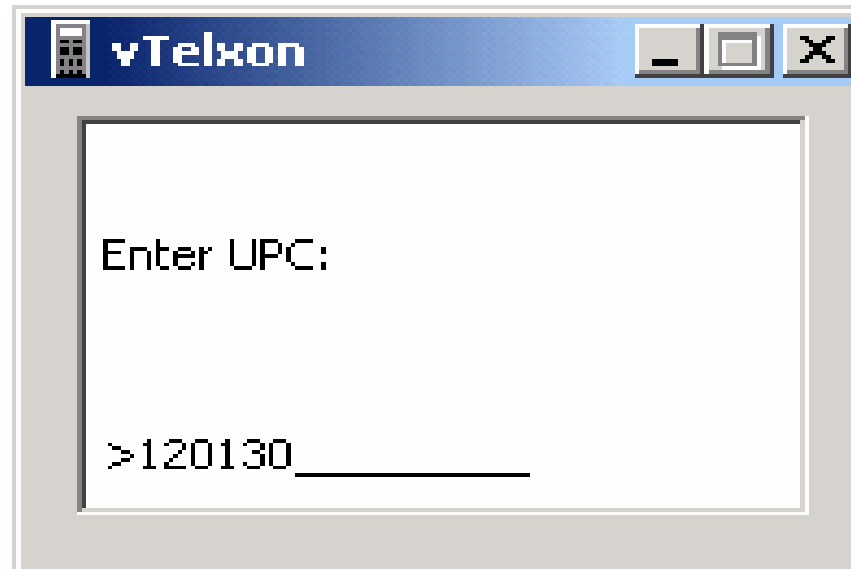
4. Enter an effective date for the batch and press enter.

Shelf Audit – New Batch



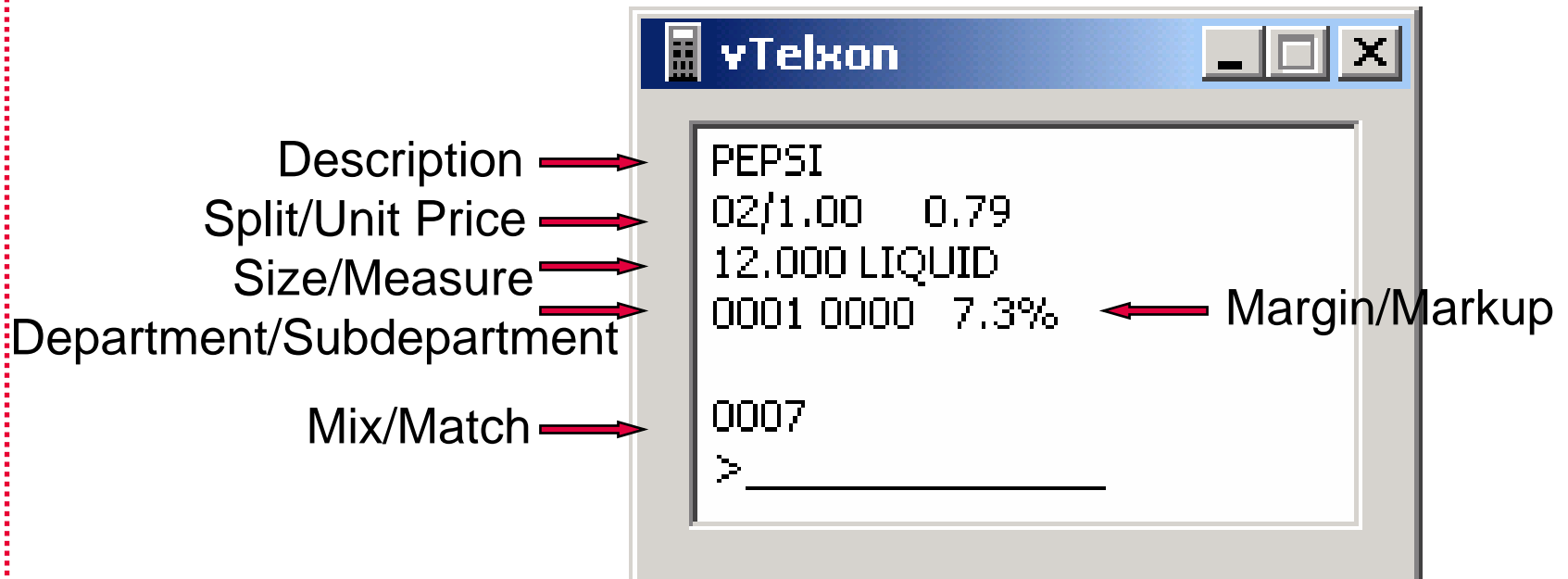
5. Enter an end date for the batch and press enter. For a batch with no end date, press enter.

Shelf Audit – New Batch



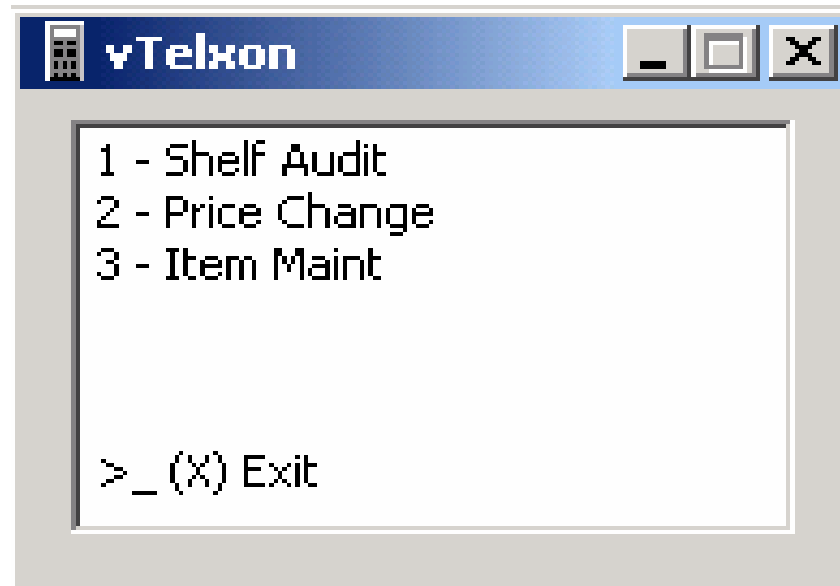
6. Scan UPC at Enter UPC prompt.

Shelf Audit – New Batch



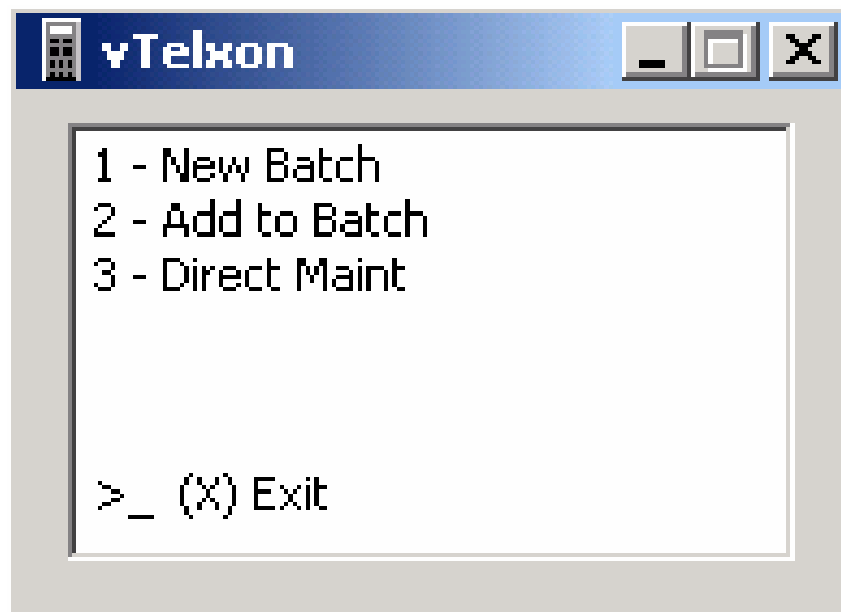
7. Make changes and press enter to save, or scan another item.

Shelf Audit – Add to Batch



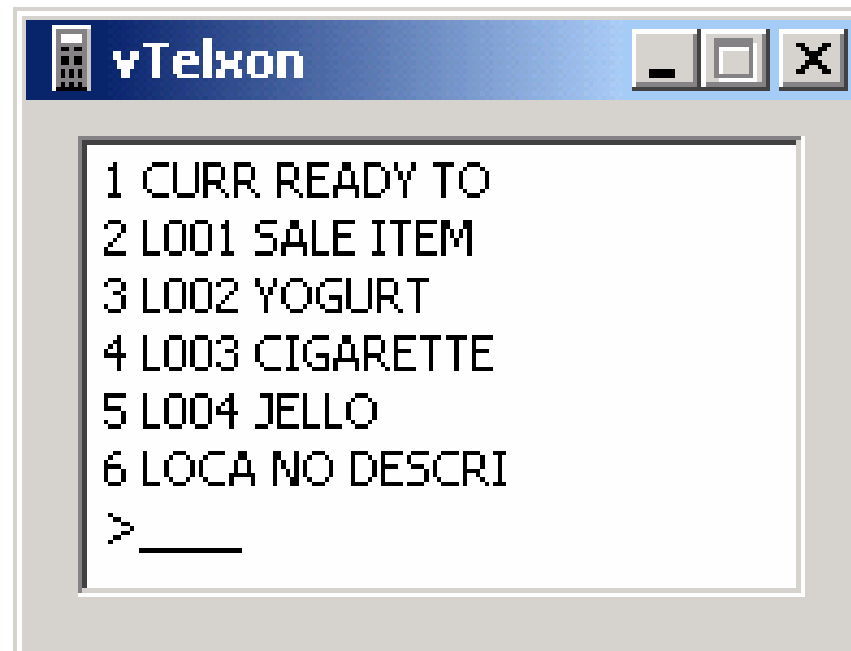
1. Select Shelf Audit (1) from the Main Menu and press enter.

Shelf Audit – Add to Batch



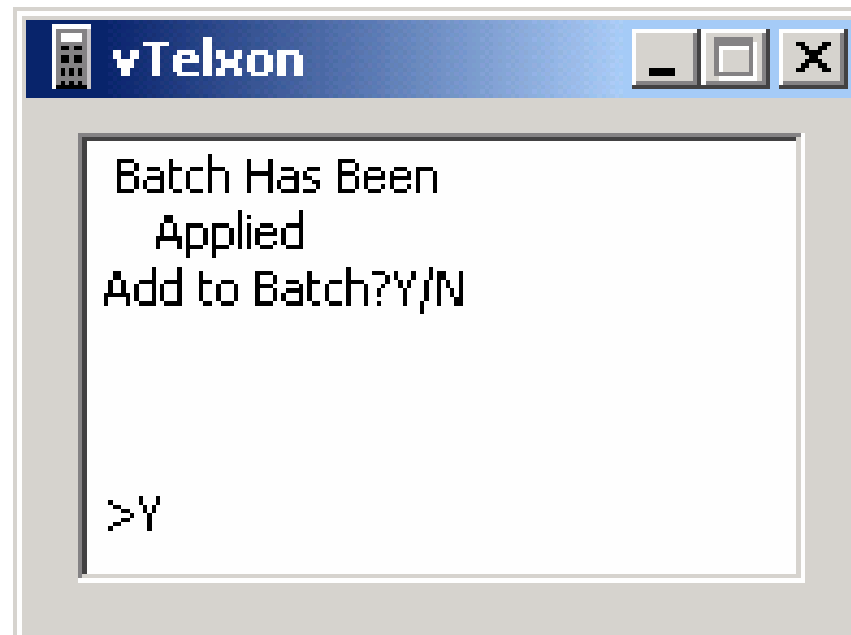
2. Select Add to Batch (2) from Shelf Audit menu and press enter

Shelf Audit – Add to Batch



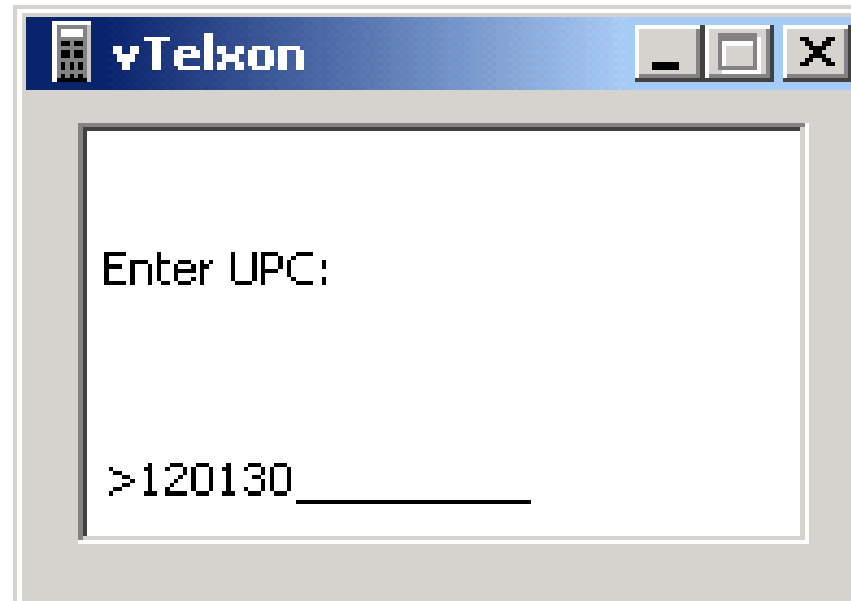
3. Select number next to batch to add items to and press enter. Use (N)ext or (P)revious and enter to scroll through batch list.

Shelf Audit – Add to Batch



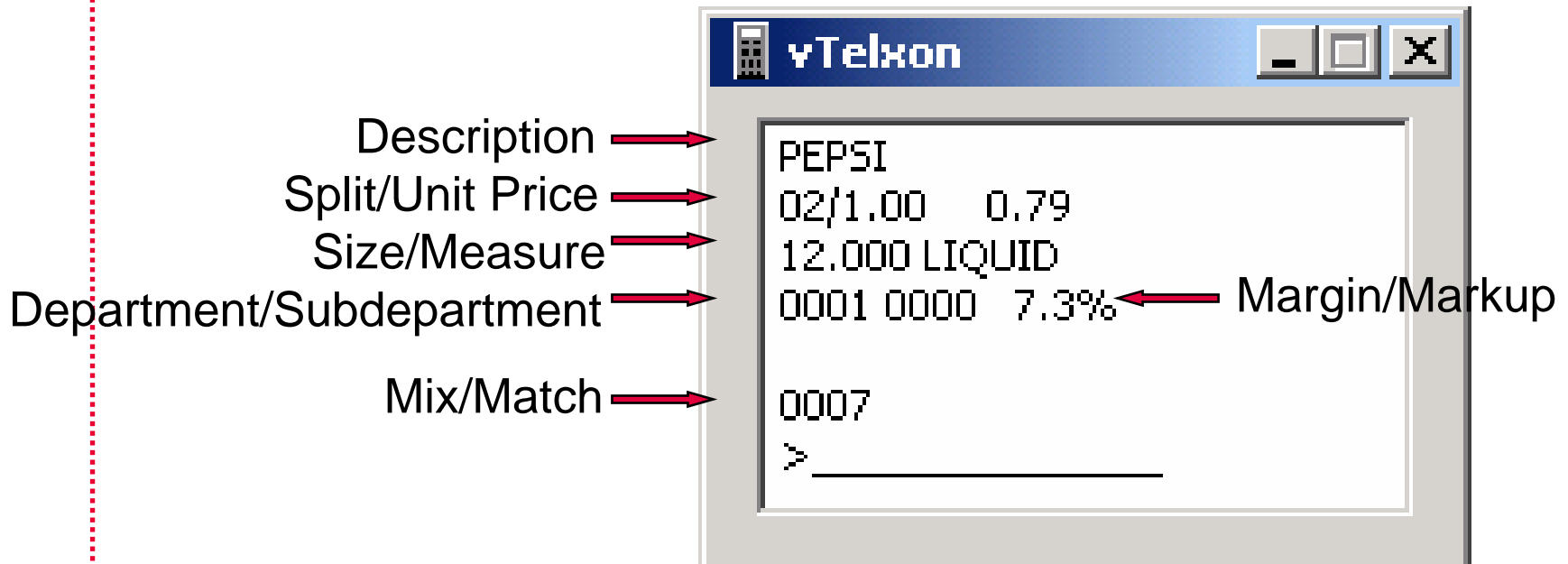
4. If batch has been applied, prompt asks if you would like to add items anyway. Press yes or no and enter.

Shelf Audit – Add to Batch



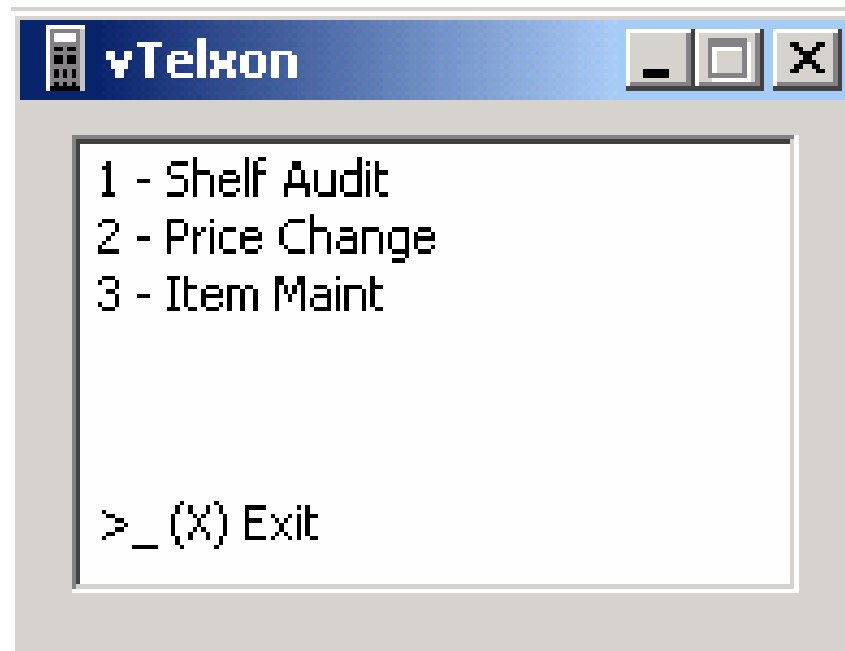
5. Scan UPC at Enter UPC prompt

Shelf Audit – Add to Batch



6. Make changes and press enter to save, or scan another item.

Shelf Audit – Direct Maint.



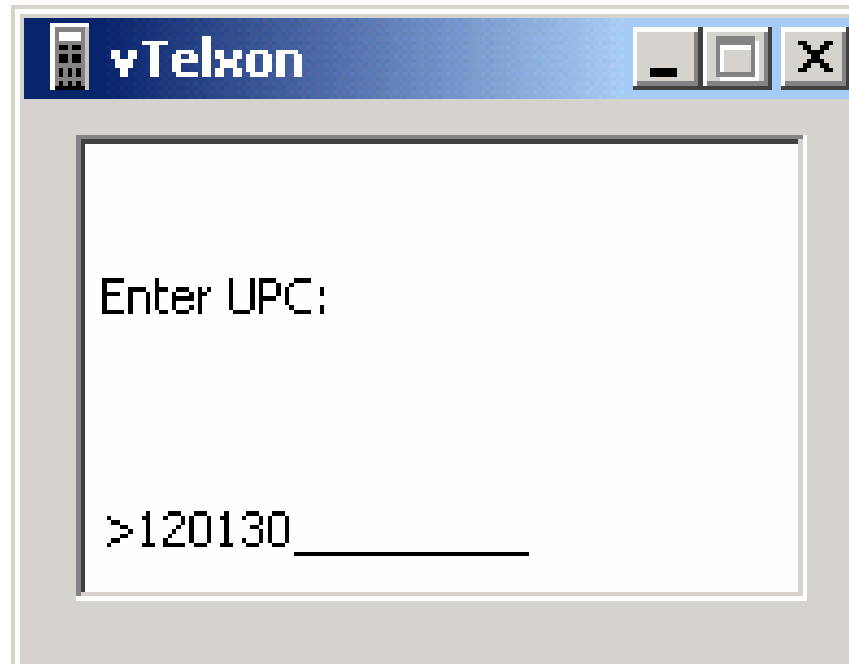
1. Select Shelf Audit (1) from the Main Menu and press enter.

Shelf Audit – Direct Maint.



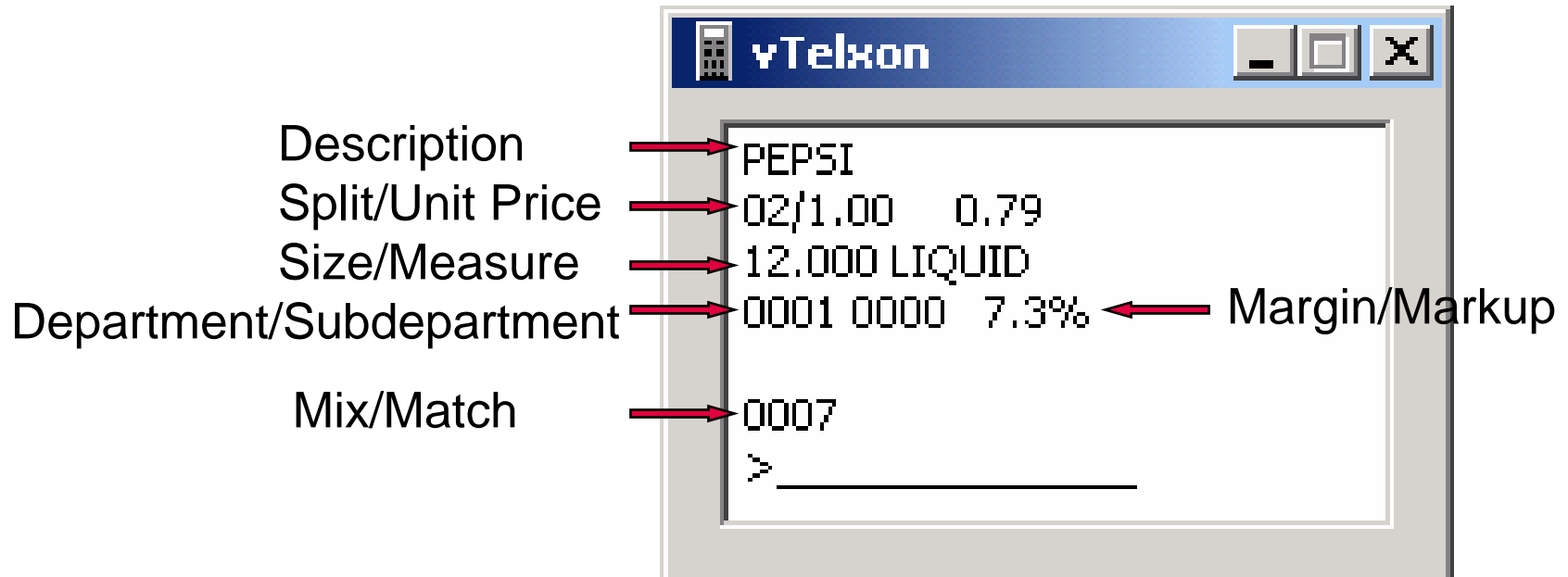
2. Select Direct Maint (3) from Shelf Audit menu and press enter

Shelf Audit – Direct Maint.



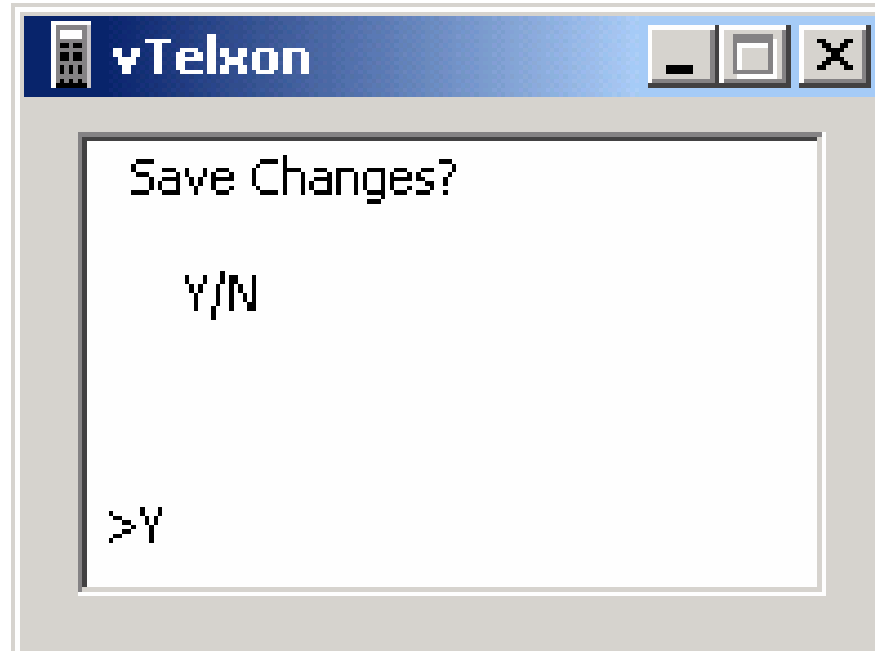
3. Scan UPC at Enter UPC prompt.

Shelf Audit – Direct Maint.



4. Make changes and press enter to save, or scan another item.

Shelf Audit – Direct Maint.

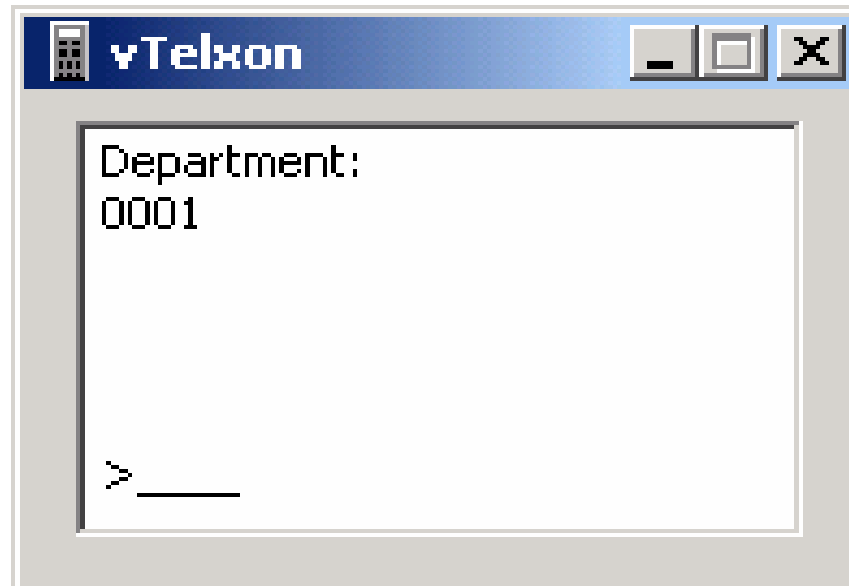


5. Depending on FM Manager configuration, a “Save Changes?” prompt may appear. Press Y and enter to save changes, or N and enter to cancel changes. If the prompt does not appear, changes are saved automatically.

Shelf Audit – editing fields

1. From the item summary screen, press one of the field letters (C, Z, M, D, S, R) and press enter
2. The current item file value for this field will display.
3. Type the desired field value and press enter to return to the item summary screen.
4. Press enter to save once all desired changes are made.

Shelf Audit – Changes



For example, to edit the department, press D and enter from the summary screen, enter the desired department and press enter. This will return you to the summary screen.

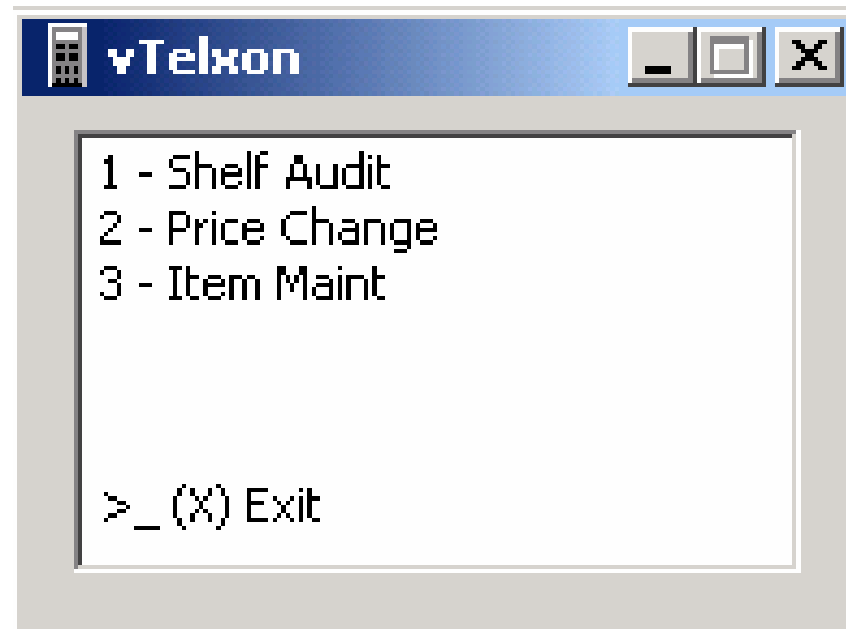
Exception to editing fields

Exception: when using C to change price, unit price must be preceded by a U, split price must be preceded by a P and split quantity must be preceded by a Q, and there is an additional <enter> required to save the price. For example: U125Q2P200 <enter>, a "?" displays after the changed price. Press enter again.

Price Change Overview

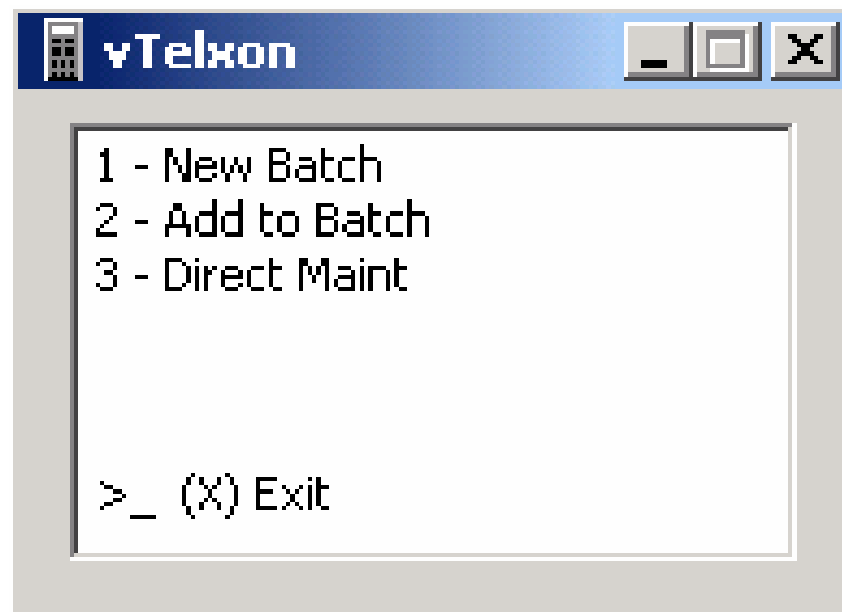
- Executable: SM2FMPCRC.EXE
- Batching and direct maintenance
- Continuous scanning without key entry
- Adding new items not on file
- Old pricing format (N###) or new pricing format (U###Q#P###) available.

Price Change – New Batch



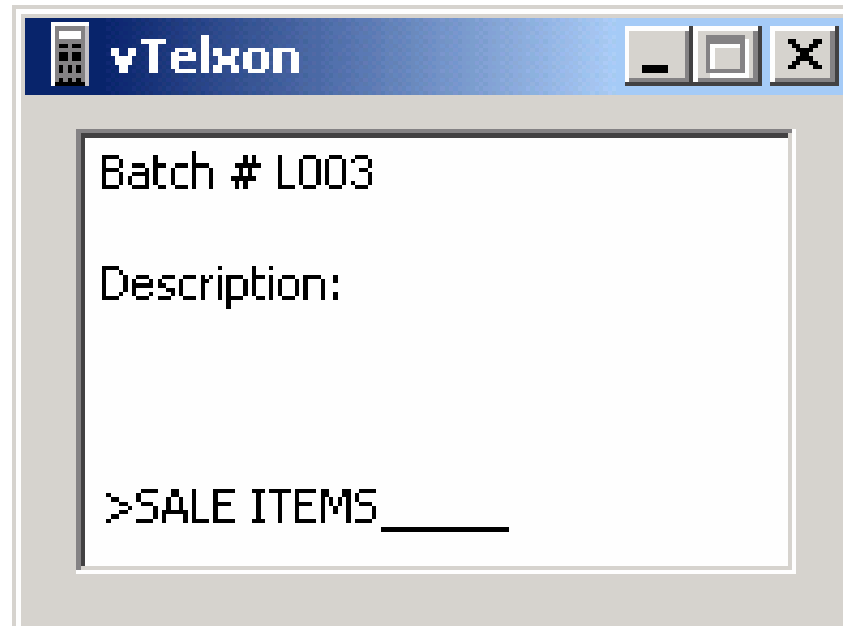
1. Select Price Change (2) from the Main Menu and press enter.

Price Change – New Batch



2. Select New Batch (1) from Price Change menu and press enter

Price Change – New Batch

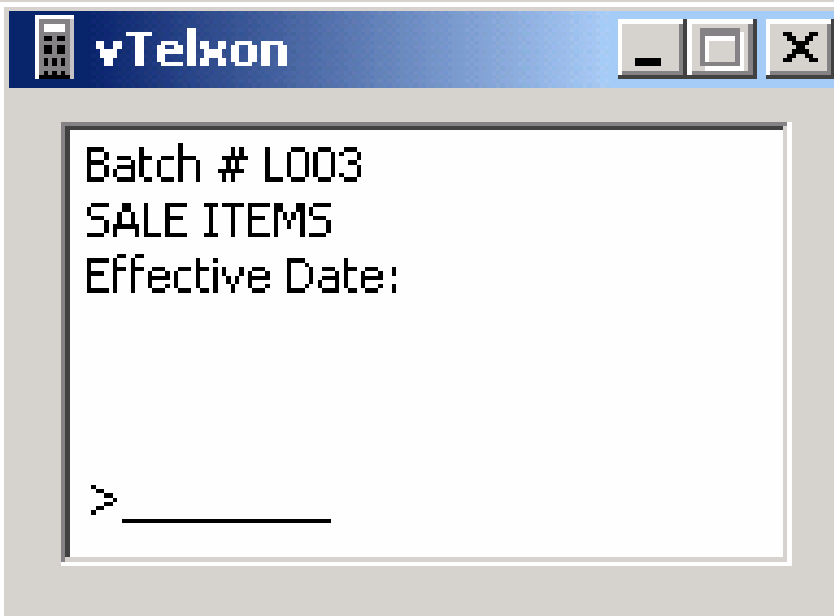


The screenshot shows a terminal window titled "vTelxon" with a calculator icon on the left and standard window controls on the right. The main content area displays the following text:

```
Batch # L003  
Description:  
  
>SALE ITEMS _____
```

3. Enter a description for the batch and press enter.

Price Change – New Batch

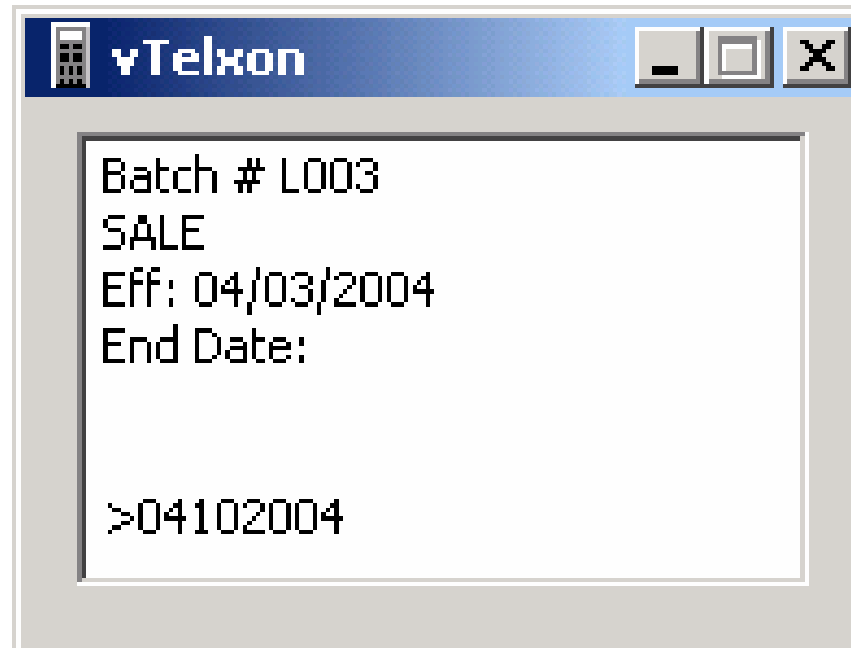


A screenshot of a terminal window titled "vTelxon". The window contains the following text:

```
Batch # L003  
SALE ITEMS  
Effective Date:  
  
> _____
```

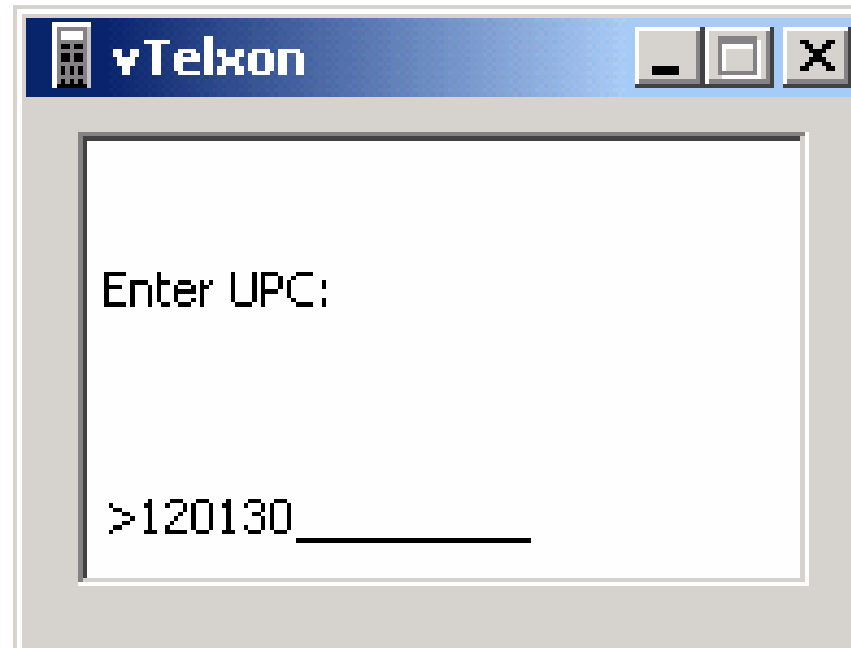
4. Enter an effective date for the batch and press enter.

Price Change – New Batch



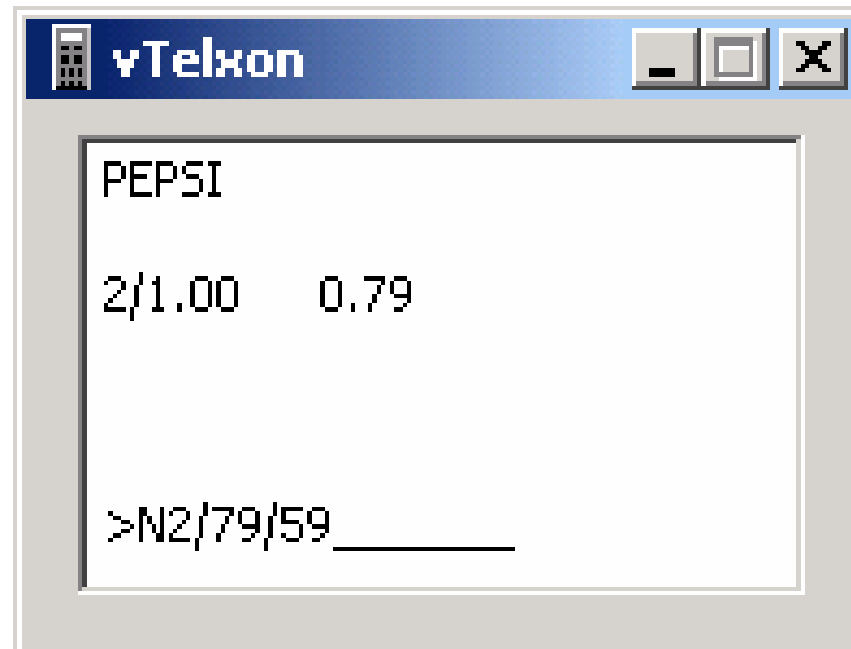
5. Enter an end date for the batch and press enter. For a batch with no end date, press enter.

Price Change – New Batch



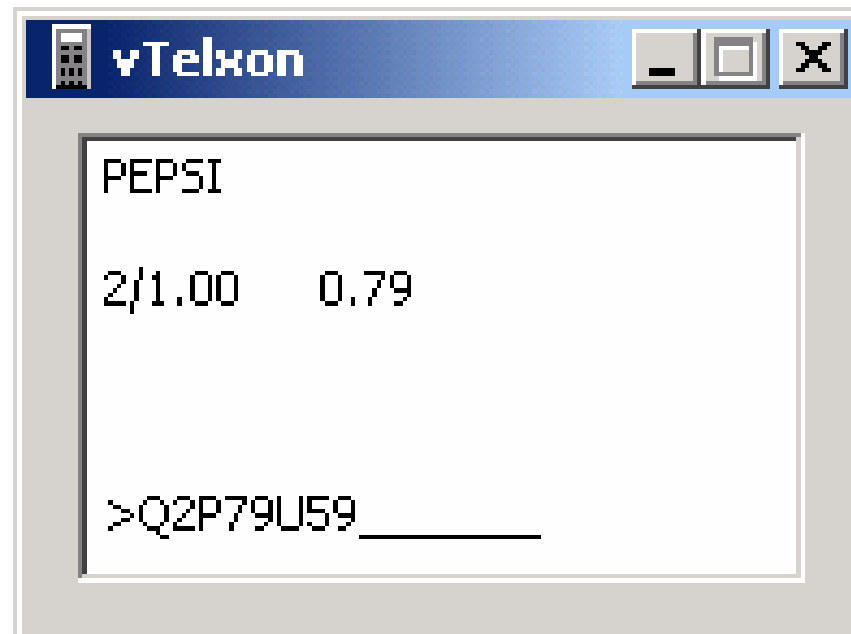
6. Scan UPC at Enter UPC prompt.

Price Change – New Batch



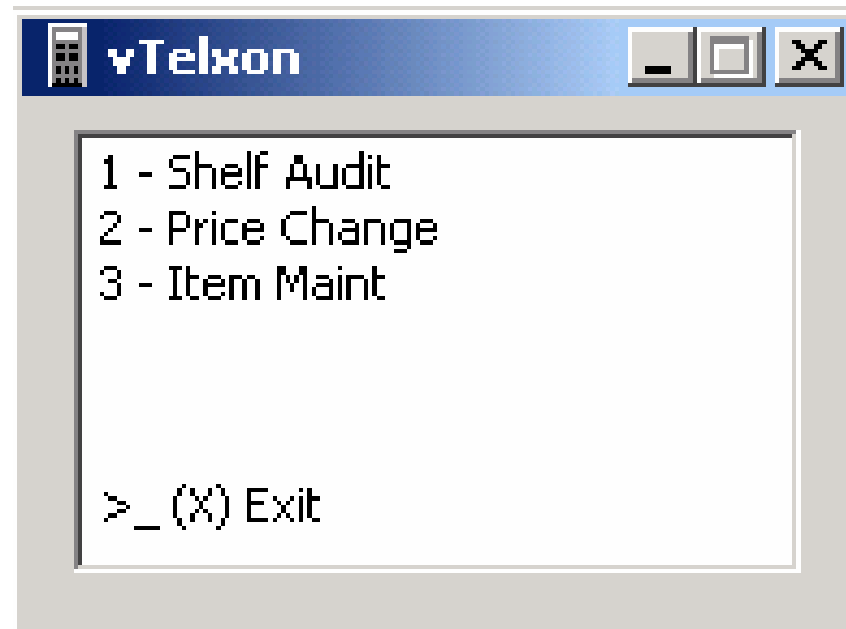
7. Change prices using either legacy price change mode OR

Price Change – New Batch



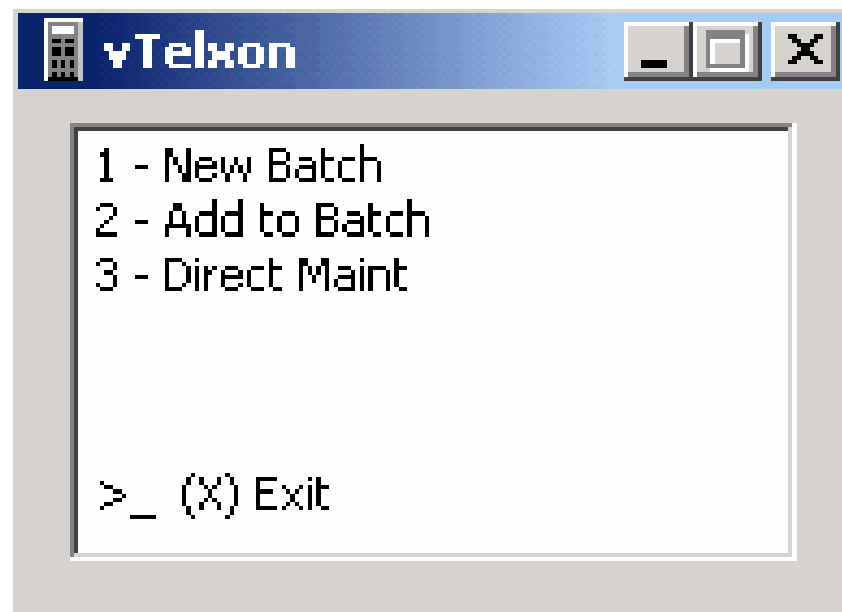
7. Change prices using EFM price change mode and press enter. Scanning can also be done from this prompt.

Price Change – Add to Batch



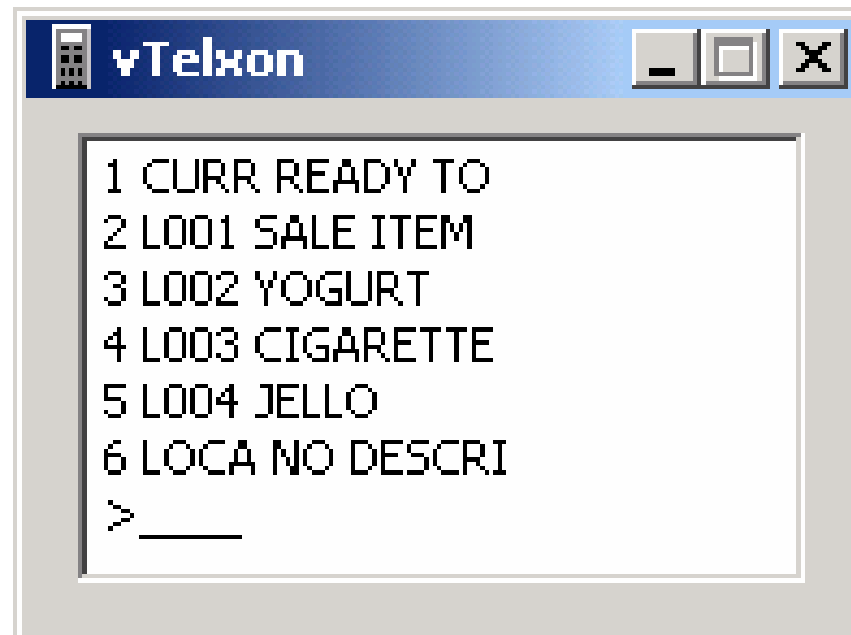
1. Select Price Change (2) from the Main Menu and press enter.

Price Change – Add to Batch



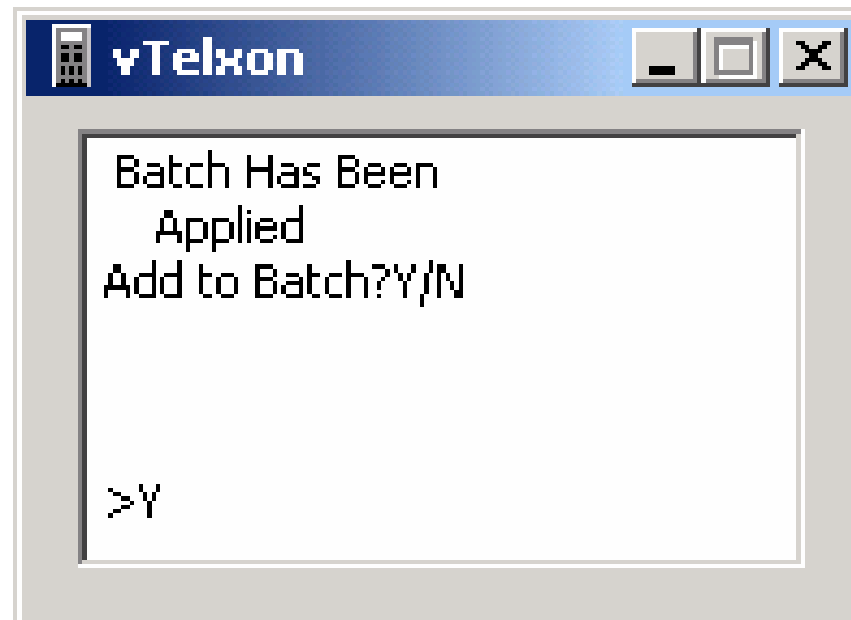
2. Select Add to Batch (2) from Price Change menu and press enter

Price Change – Add to Batch



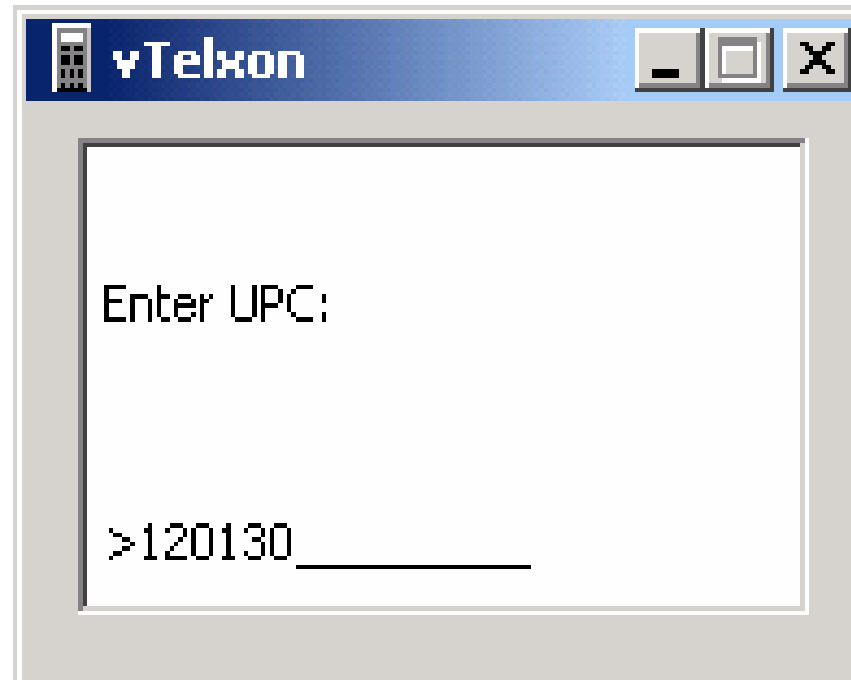
3. Select number next to batch to add items to and press enter. Use (N)ext or (P)revious and enter to scroll through batch list.

Price Change – Add to Batch



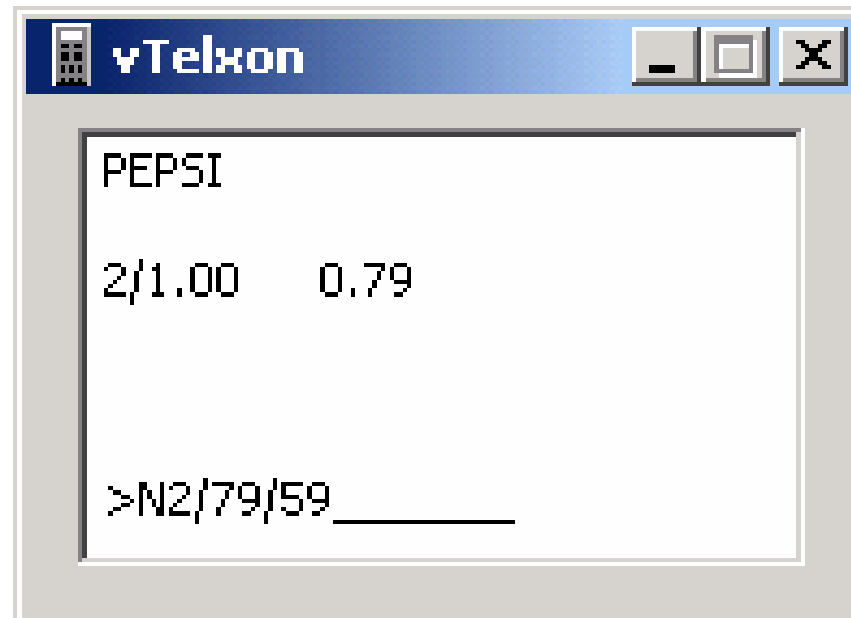
4. If batch has been applied, prompt asks if you would like to add items anyway. Press yes or no and enter.

Price Change – Add to Batch



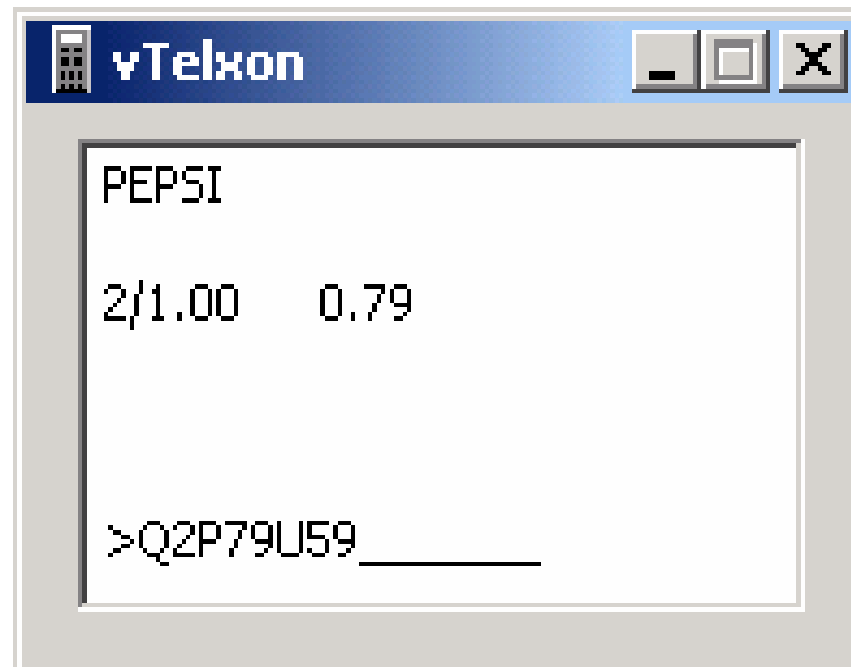
5. Scan UPC at Enter UPC prompt.

Price Change – Add to Batch



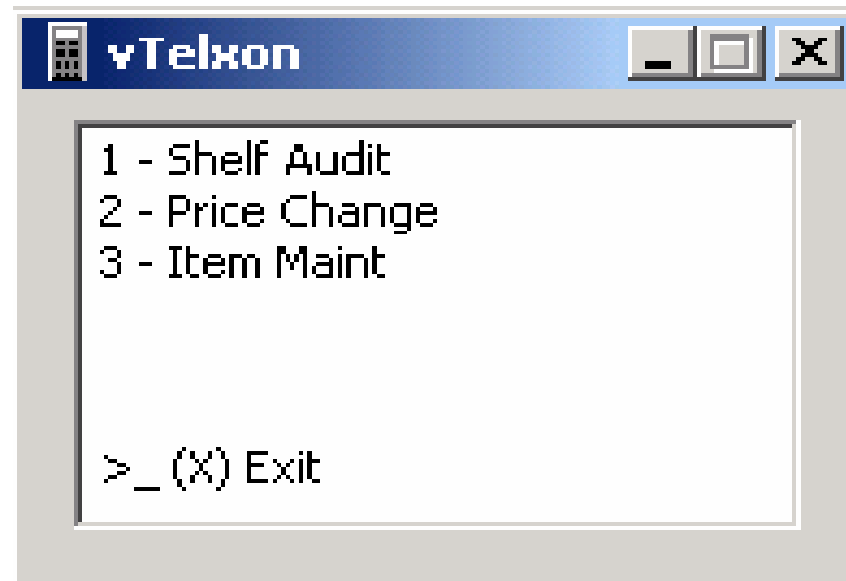
6. Change prices using either legacy price change mode OR

Price Change – Add to Batch



6. Change prices using EFM price change mode and press enter. Scanning can also be done from this prompt.

Price Change – Direct Maint.



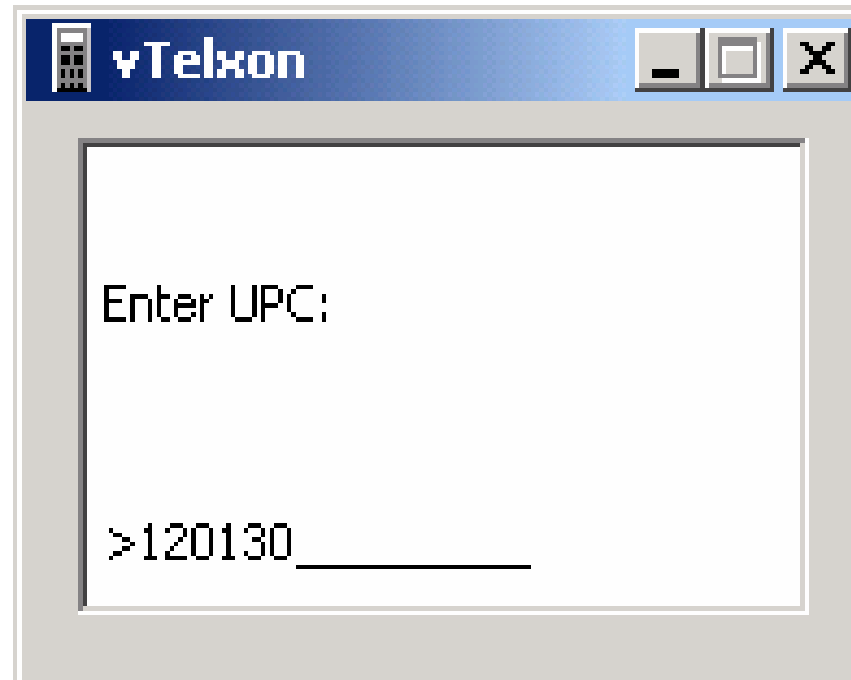
1. Select Price Change (2) from the Main Menu and press enter.

Price Change – Direct Maint.



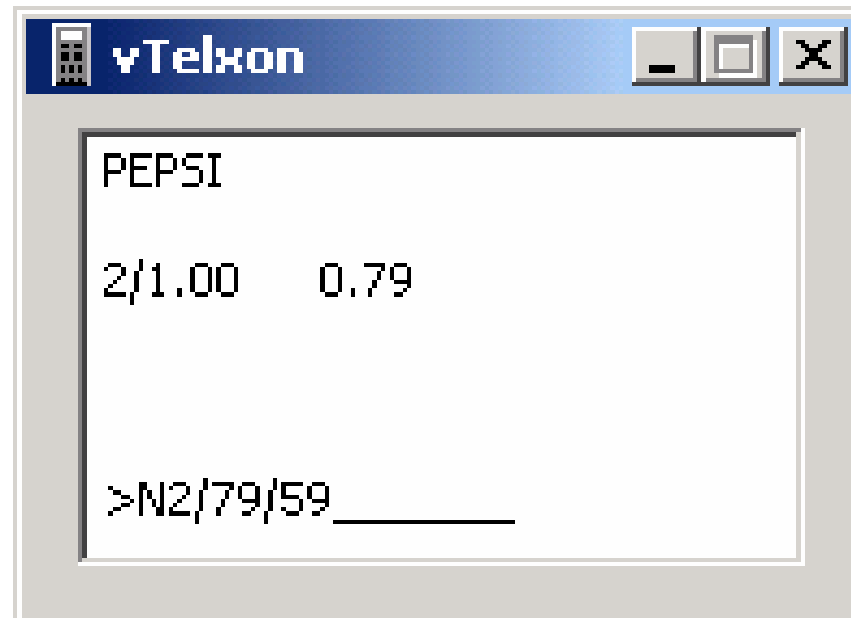
2. Select Direct Maint (3) from Price Change menu and press enter

Price Change – Direct Maint.



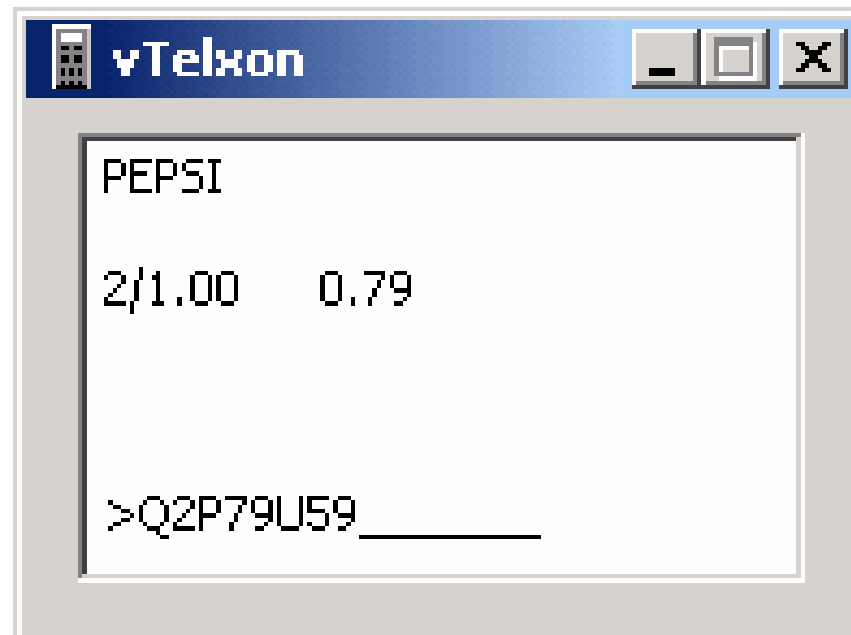
3. Scan UPC at Enter UPC prompt.

Price Change – Direct Maint.



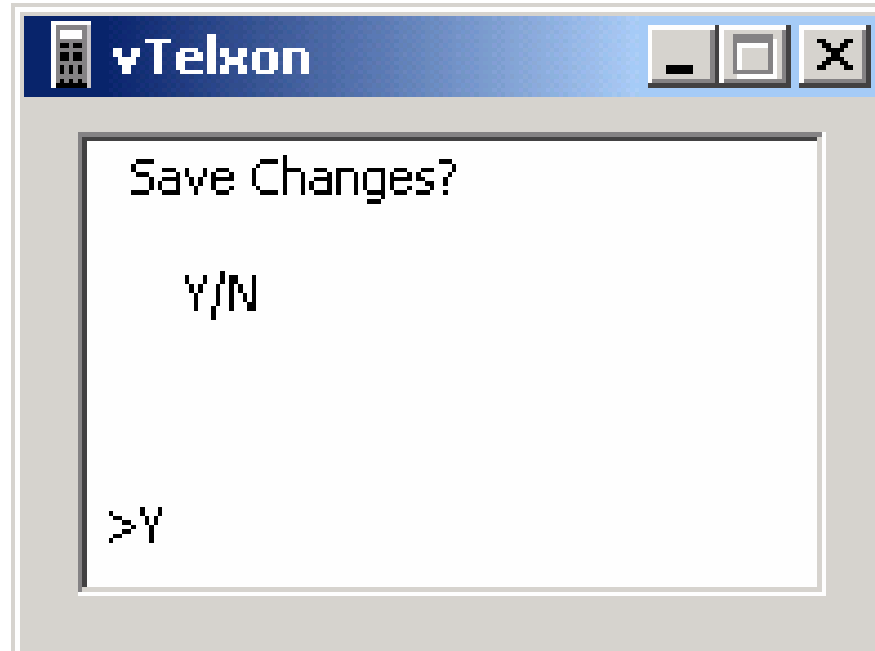
4. Change prices using either legacy price change mode OR

Price Change – Direct Maint.



4. Change prices using EFM price change mode and press enter. Scanning can also be done from this prompt.

Price Change – Direct Maint.



5. Depending on FM Manager configuration, a "Save Changes?" prompt may appear. Press Y and enter to save changes, or N and enter to cancel changes. If the prompt does not appear, changes are saved automatically.

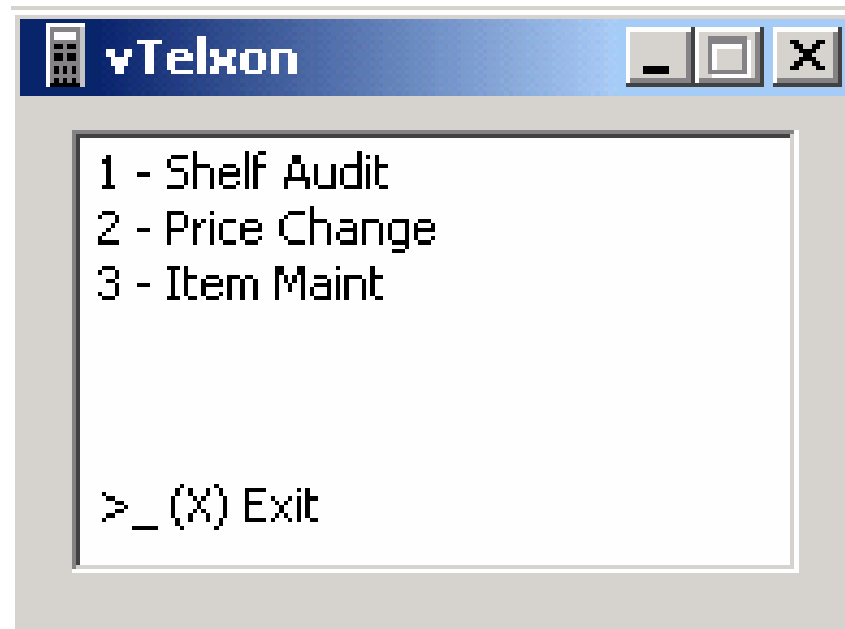
Item Maintenance

- Executable: SM2FMITM.EXE
- Batching and direct maintenance
- Adding new items not on file
- Quick key (X) to abort changes
- Quick key (.) to save changes before reaching end of template

Item Maintenance - modes

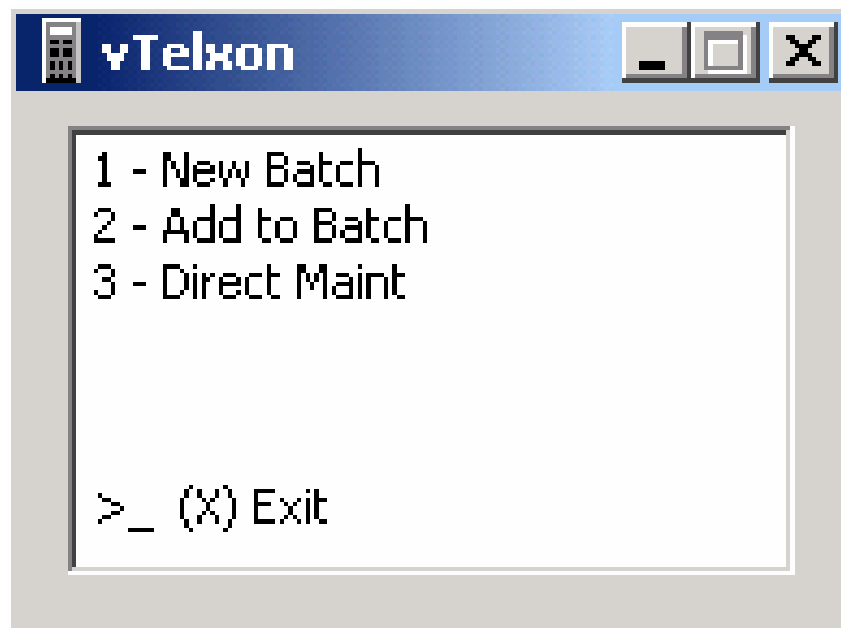
- Two modes for editing items are available:
 - Tab mode: allows the user to edit the fields of a chosen template differently for each item scanned.
 - Preset mode: allows the user to define a preset value for fields in a template and apply them to multiple items

Item Maint. – New Batch



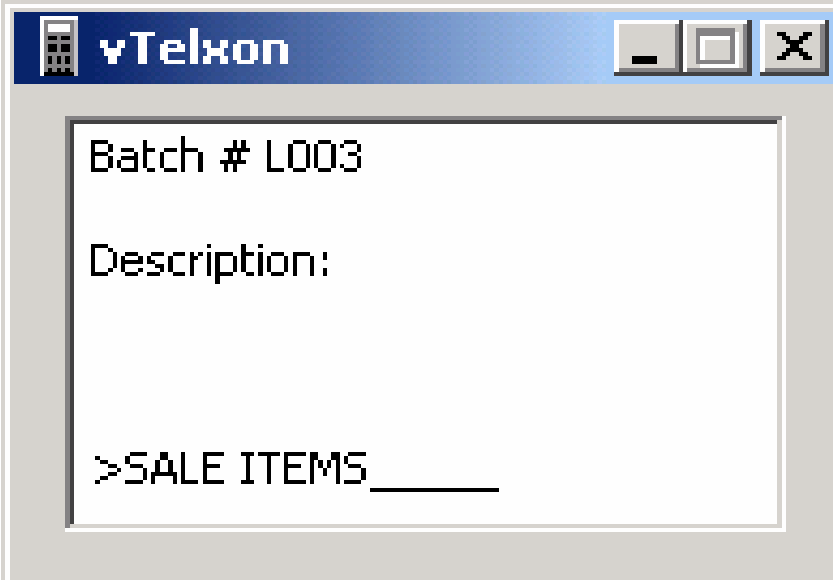
1. Select Item Maint. (3) from the Main Menu and press enter.

Item Maint. – New Batch



2. Select New Batch (1) from Item Maintenance menu and press enter

Item Maint. – New Batch

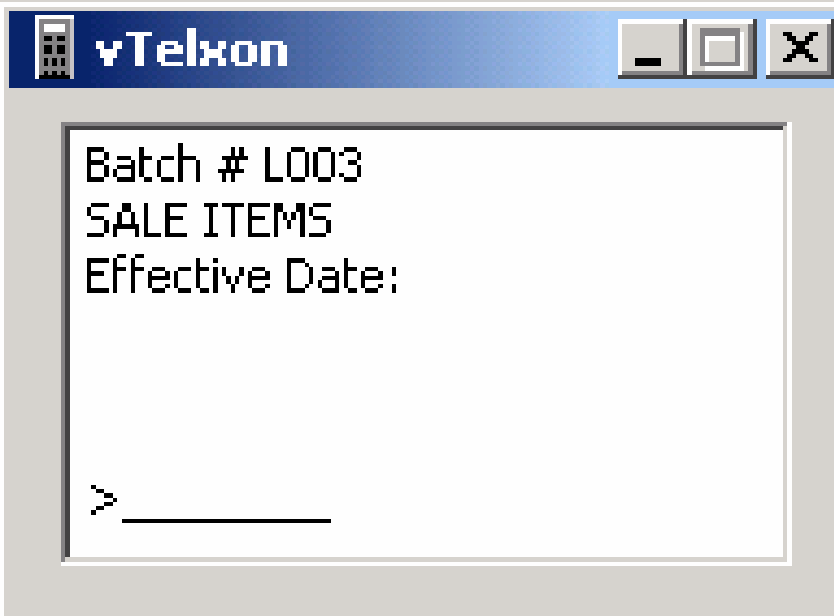


The screenshot shows a terminal window titled "vTelxon". The window contains the following text:

```
Batch # L003  
Description:  
  
>SALE ITEMS _____
```

3. Enter a description for the batch and press enter.

Item Maint. – New Batch



vTelxon

Batch # L003
SALE ITEMS
Effective Date:
> _____

4. Enter an effective date for the batch and press enter.

Item Maint. – New Batch

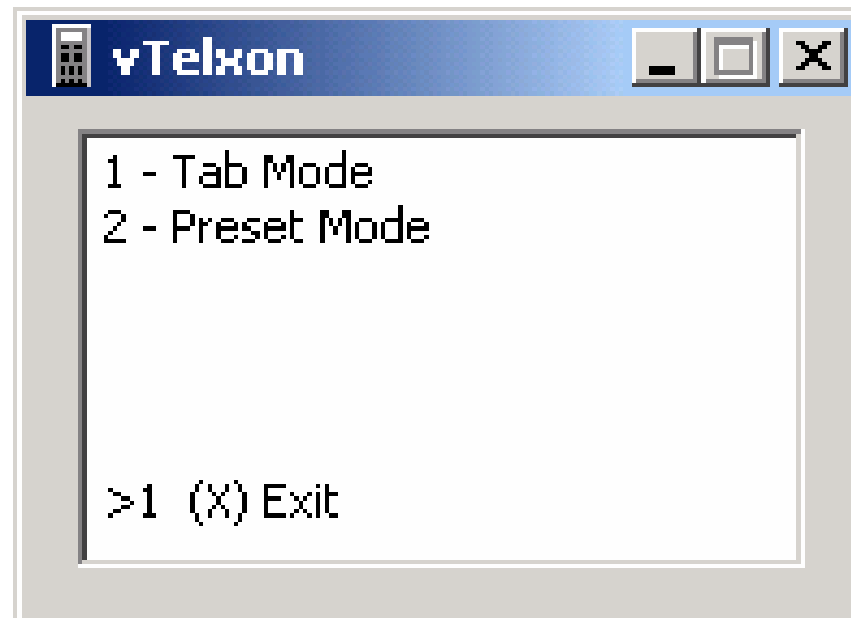


A screenshot of a Telxon terminal window. The window title bar is blue and contains a calculator icon, the text "Telxon", and standard window control buttons (minimize, maximize, close). The main content area is white and displays the following text in a monospaced font:

```
Batch # L003  
SALE  
Eff: 04/03/2004  
End Date:  
  
>04102004
```

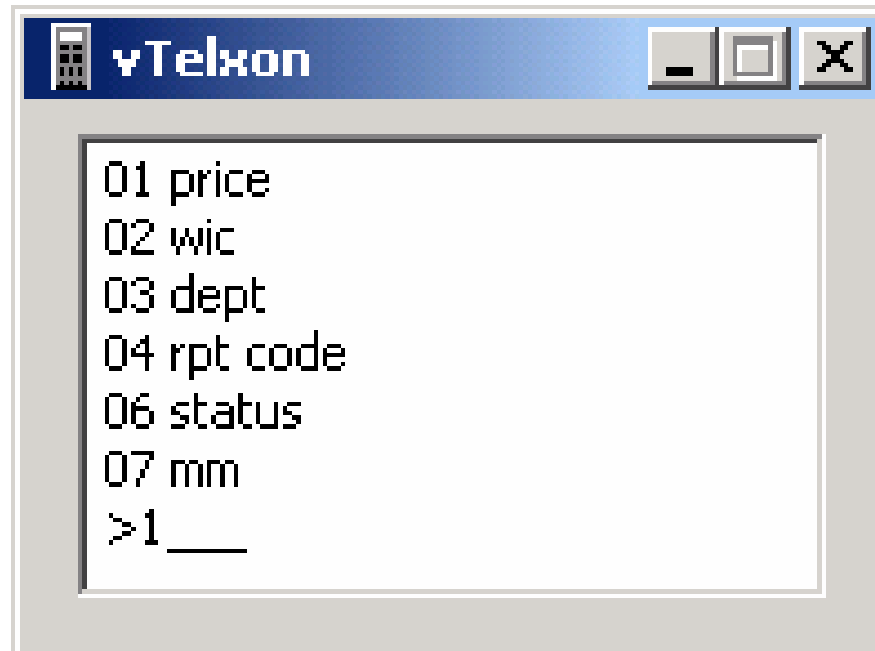
5. Enter an end date for the batch and press enter. For a batch with no end date, press enter.

Item Maint. – New Batch



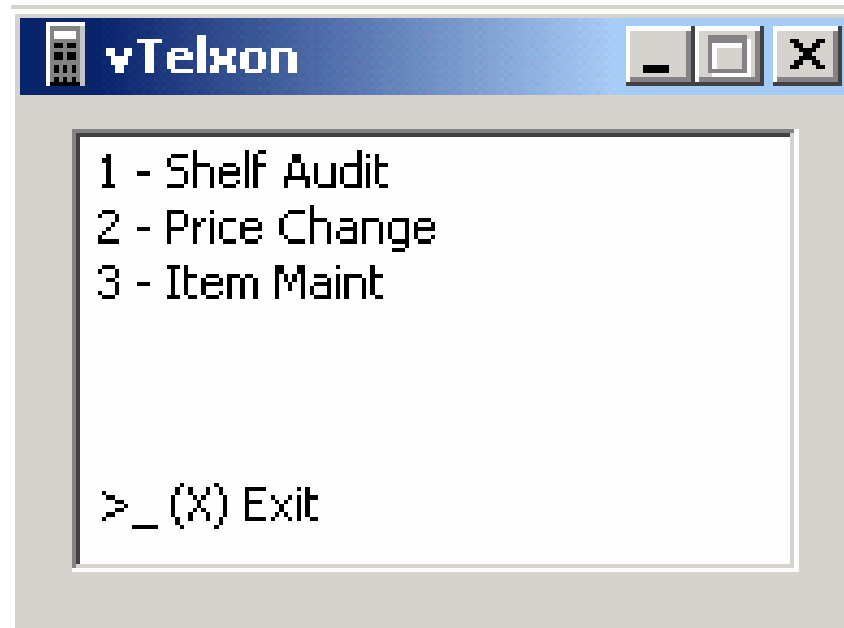
5. Select Tab Mode or Preset Mode and press enter.

Item Maint. – Add to Batch



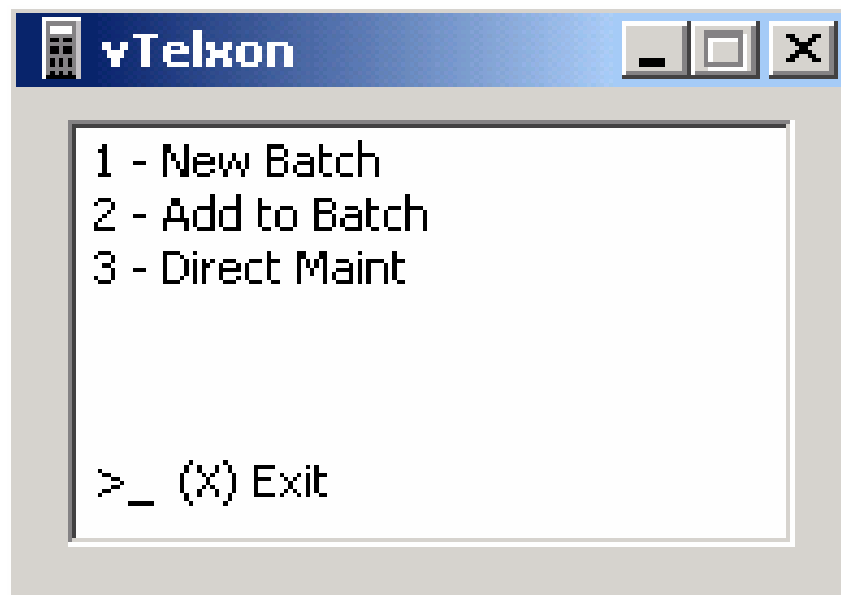
6. Select template to use for editing items and press enter. For Tab mode, scan one item at a time, editing fields for each item. For Preset mode, edit fields first, then scan items to apply changes to.

Item Maint. – Add to Batch



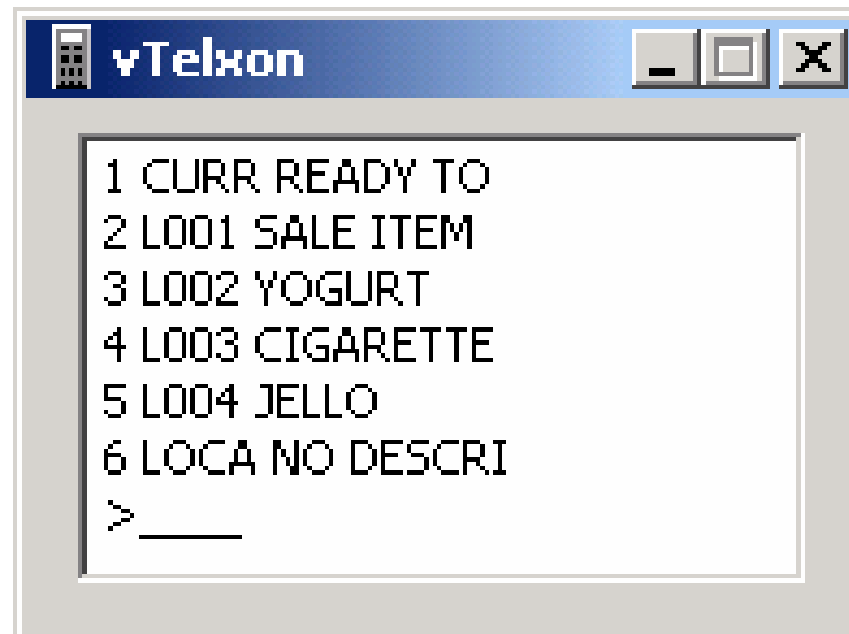
1. Select Item Maint (3) from the Main Menu and press enter.

Item Maint. – Add to Batch



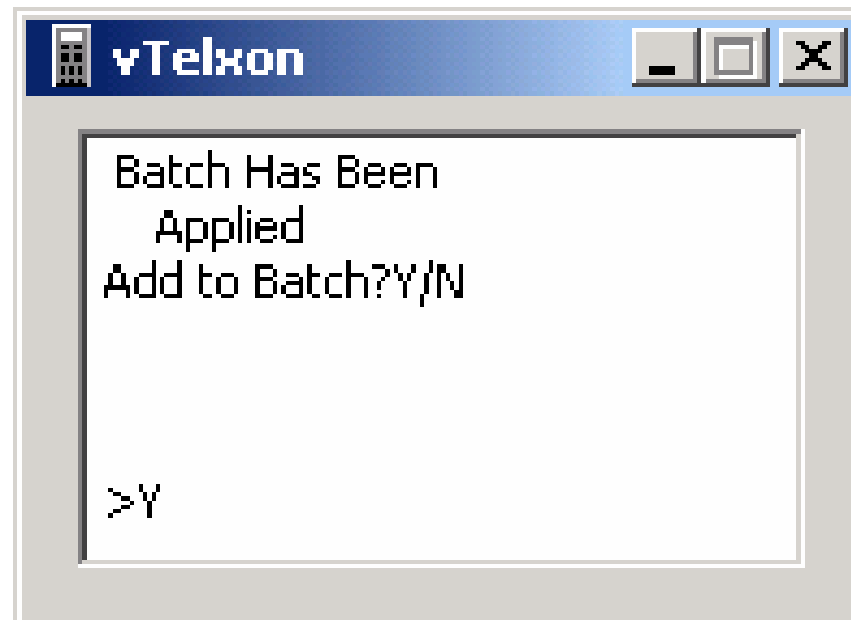
2. Select Add to Batch (2) from Item Maintenance menu and press enter

Item Maint. – Add to Batch



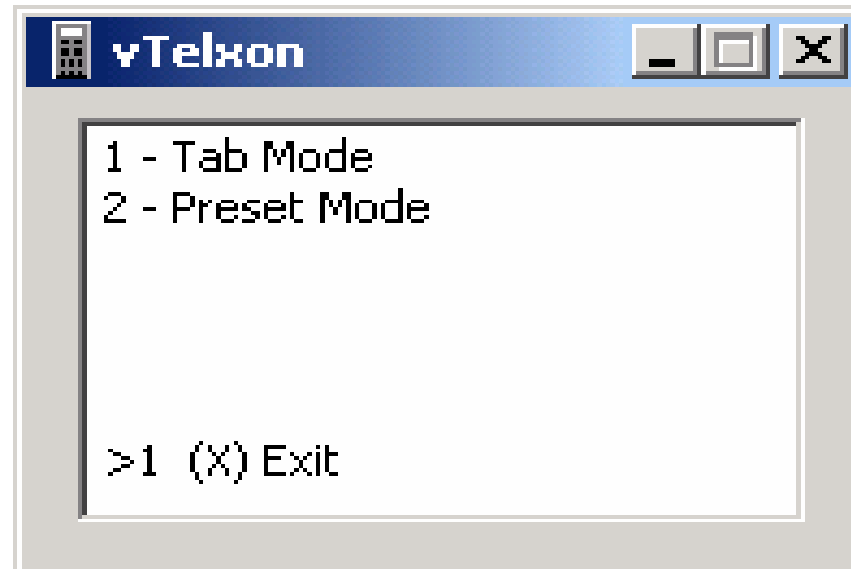
3. Select number next to batch to add items to and press enter. Use (N)ext or (P)revious and enter to scroll through batch list.

Item Maint. – Add to Batch



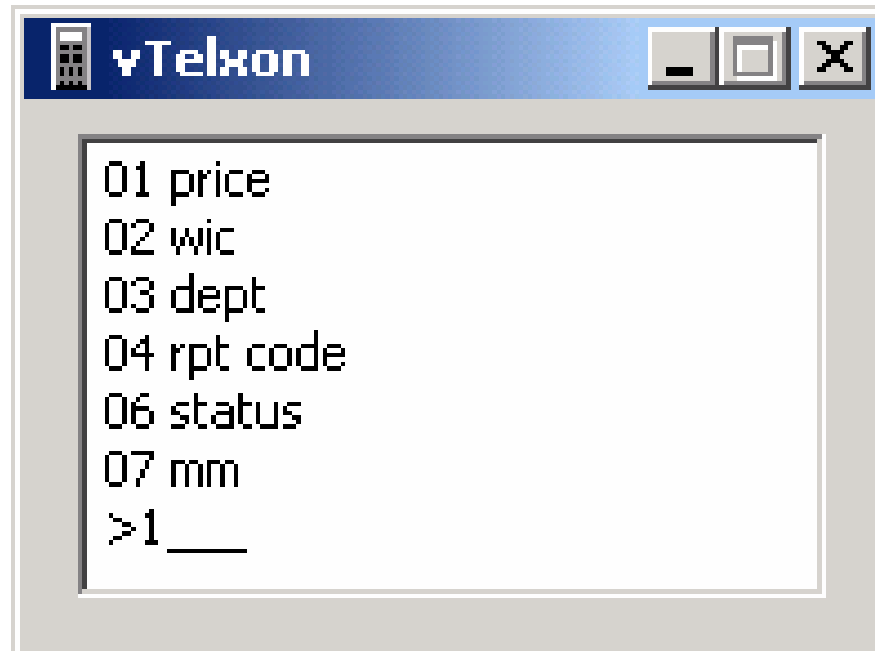
4. If batch has been applied, prompt asks if you would like to add items anyway. Press yes or no and enter.

Item Maint. – Add to Batch



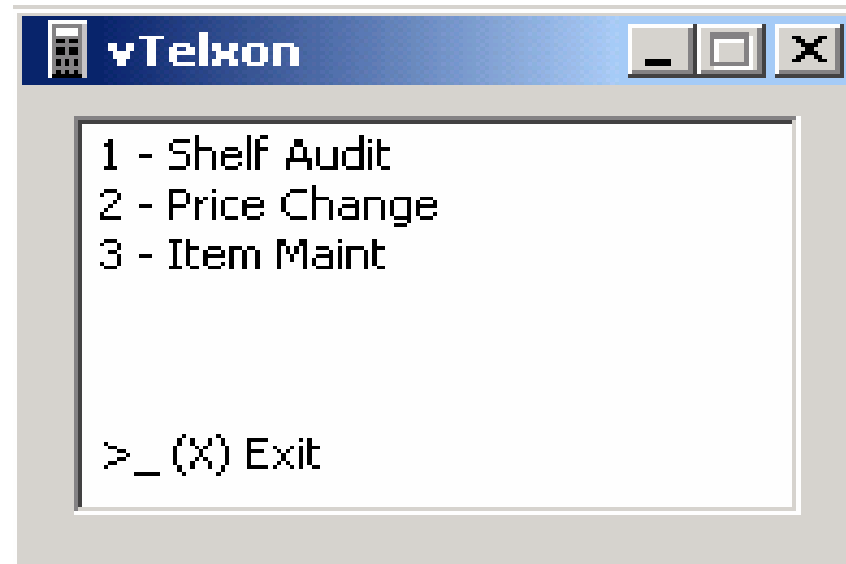
5. Select Tab Mode or Preset Mode and press enter

Item Maint. – Add to Batch



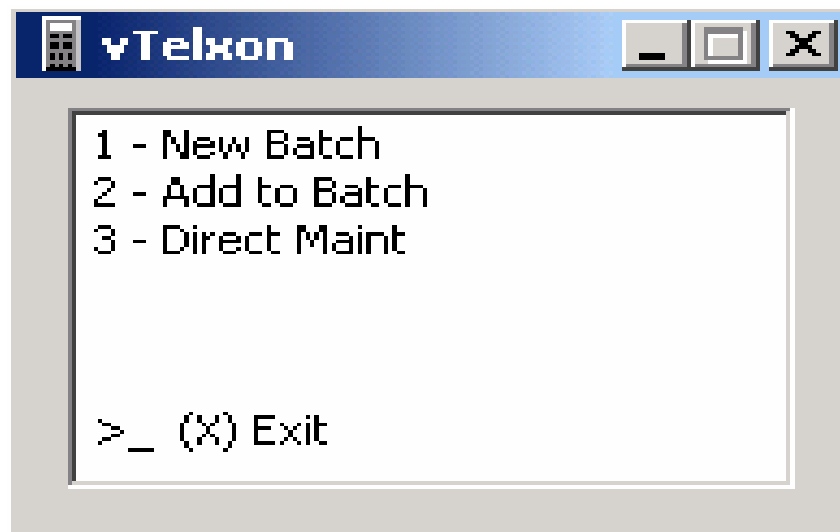
6. Select template to use for editing items and press enter. For Tab mode, scan one item at a time, editing fields for each item. For Preset mode, edit fields first, then scan items to apply changes to.

Item Maint. – Direct Maint.



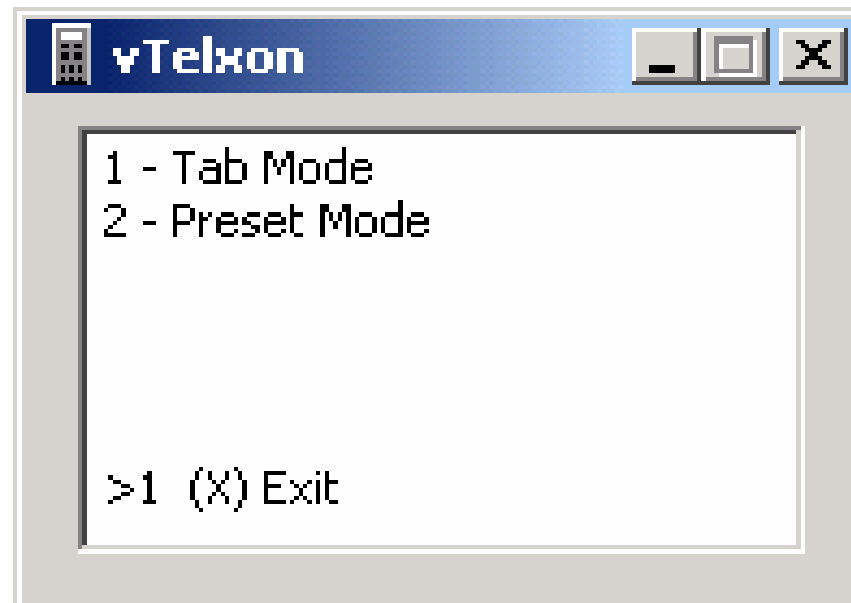
1. Select Item Maint (3) from the Main Menu and press enter.

Item Maint. – Direct Maint.



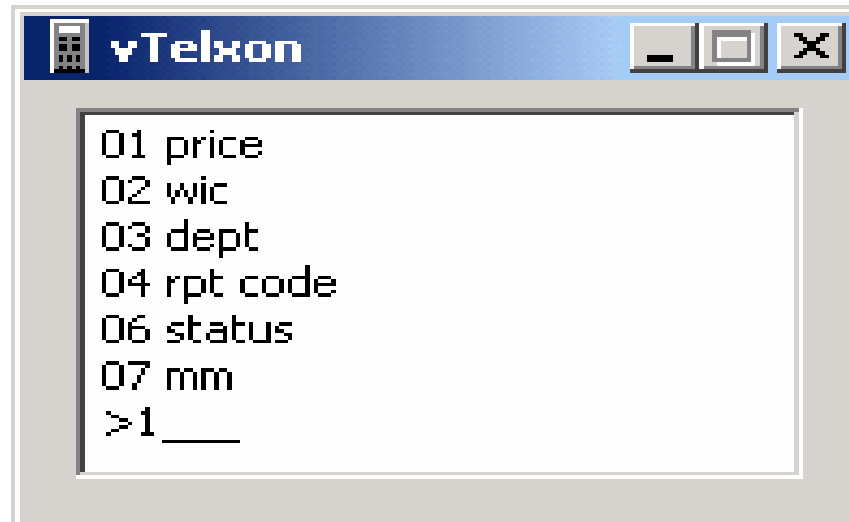
2. Select Direct Maint (3) from Item Maintenance menu and press enter

Item Maint. – Direct Maint.



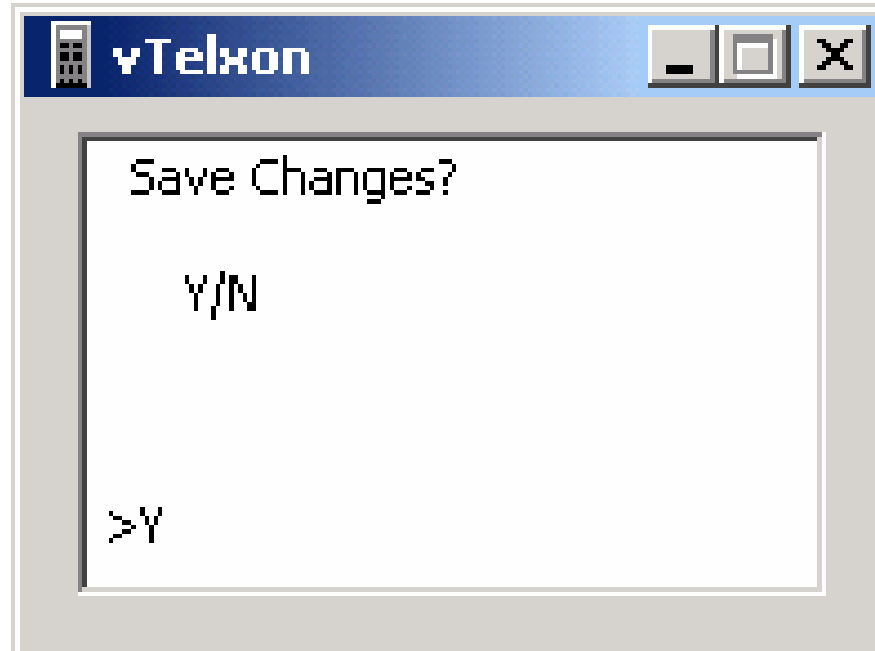
3. Select Tab Mode or Preset Mode and press enter.

Item Maint. – Direct Maint.



4. Select template to use for editing items and press enter. For Tab mode, scan one item at a time, editing fields for each item. For Preset mode, edit fields first, then scan items to apply changes to.

Item Maint. – Direct Maint.



5. When finished making changes, depending on FM Manager configuration, a “Save Changes?” prompt may appear. Press Y and enter to save changes, or N and enter to cancel changes. If the prompt does not appear, changes are saved automatically.

Troubleshooting

- FM help sheet is available.
- If “Service Improperly Setup” message appears on the handheld, verify that:
 - The fm service is set up with admin rights
 - All 16 terminals are enabled. (5203 key in the registry is set to YYYYYYYYYYYYYYYYYY)
- If user can enter an Operator ID at the login screen, but the cursor never goes to the Password field, either:
 - The registry entries for the server name and shared drive are incorrect, OR
 - There is no user set up in the fm manager.

Troubleshooting

- Loading Symbol equipment:
 - Requires a licensed copy of telnet client from ScanSource.
 - Hold down F and I and power on to load files.
 - Load .hex files in this order:
 - Lwp.hex (lwp11.hex for 6846)
 - Upd802.hex (upd11.hex for 6846)
 - Vtl46k.hex (for all Symbol models)
 - Hold down 4 and 5 and power on to warm boot. Do this after loading each file.
 - Hold down A, B and D and power on to cold boot. Do this after all files are loaded.

Troubleshooting

- **Configuring Symbol equipment:**
 - At “Press Enter to Connect” prompt press FUNC-Ctrl-R (in sequence, not together) and enter the password: SYSTEM. You can then edit either the host or terminal configuration
 - Host configuration includes:
 - Name of host machine (doesn't affect communication)
 - IP address of host machine
 - Emulation: VT100
 - Port: 5123
 - Terminal configuration includes:
 - Terminal IP address and subnet
 - ESS ID: 101
 - Other items that don't concern unit's use with ScanMaster

Troubleshooting

- Before contacting QA or development, please have ready:
 - Version of executable that you think is causing the problem.
 - Version of ScanMaster that is currently running.
 - What type of hardware is being used (Symbol, Telxon or Norand) and the model.
 - Error logs from root directory on the computer running the fm service (search for fm*.log).
 - If the store having the problem has newly installed or upgraded their fm software.