

## CLOSING THE MDM4 APPLICATION

To close the MDM4 Application, proceed as follows:

1. Click on the 'File' pull-down Menu (Figure 40 a) on the MDM4 Main Screen, and select 'Exit' (Figure 40 b) from the list.

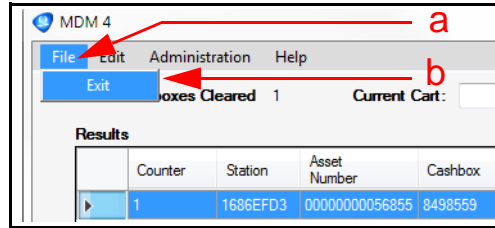


Figure 40 File Menu > Exiting MDM4

2. The Exit Application dialog box will appear, as shown in Figure 41. Click 'Yes' (Figure 41 a) to exit the program, or on 'No' (Figure 41 b) to return to the application.

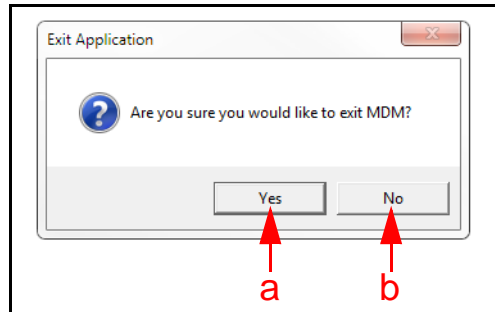



Figure 41 Exit Application Dialog Box

 **NOTE:** When a User exits the MDM4 Application, all Cash Box data that was read and downloaded during the Drop Session will be saved to a Data Capture File on the Host PC in the directory specified on the Data Placement Screen (Review Figure 18). The Data File name has a 'mmddyyy\_hhmmss.icb' Format which identifies the date and time that the file was created. For example, a data file named '04302016\_41540.icb' was created on April 30, 2016 at 2:15:40 PM. Once saved, the Data File is then used by the ICB Web Reports Application to generate various Reports.

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# JCM® TRAINING OVERVIEW

## Multi-Download Module 4®



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# Multi-Download Module 4® (MDM4)

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## MANUAL PRINTING AN ASSET NUMBER TICKET

To manually print an Asset Number Ticket or Header Card:

1. Right-click below the Station Status icon (Figure 37 a).
2. From the pop-up menu, select "Print Manual Ticket" (Figure 37 b).
3. Enter the Asset Number for the Ticket to be printed in the Print a manual asset number dialog box (Figure 38 a), then click the OK button (Figure 38 b).

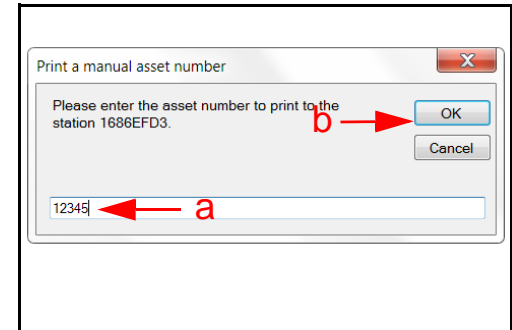


Figure 38 Print Manual Asset Dialog Box

## ENABLE/DISABLE READ/WRITE TOOL COM PORT

From the Station Status icon, a connected Read/Write Tool can be enabled or disabled by opening or closing its Communications Port. To change a connected Read/Write Tool's COM Port Status, proceed as follows:

1. Right-click below the Station Status icon (Figure 39 a).
2. To close a COM Port from the pop-up menu, select 'Close Port' (Figure 39 b). Then select the COM Port to be closed.
3. To open a COM Port from the pop-up menu, select 'Open Port' (Figure 39 b). Then select the COM Port to be opened.

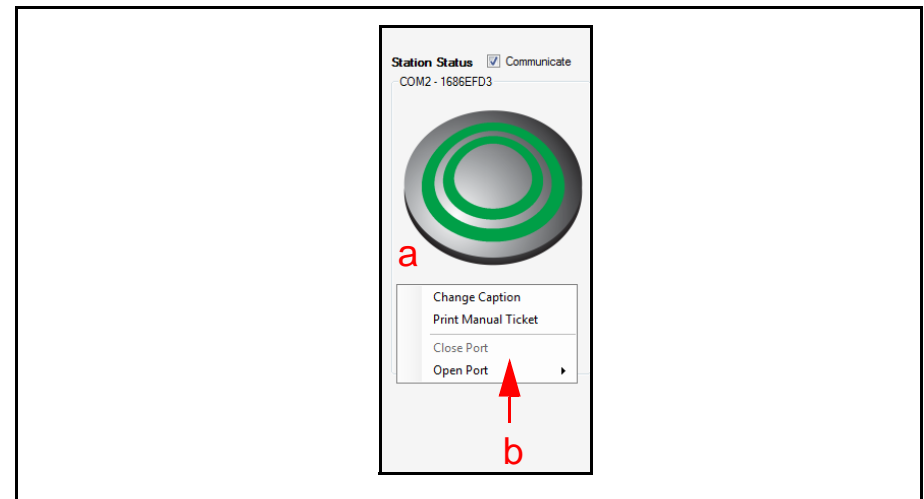


Figure 39 Changing the COM Port Status

## REPRINTING AN ASSET TICKET OR HEADER CARD

If an Asset Ticket or Header Card needs to be reprinted, proceed as follows:

1. In the Results window, right-click the Asset Number to be reprinted (Figure 35 a).
2. From the pop-up menu, click on 'Print Ticket' (Figure 35 b).  
The selected Ticket will be Printed, and a notation will appear on the Ticket indicating that the Ticket is a Reprint.

## STATION STATUS IDENTIFIER

The default Caption for the connected MDM4 Read/Write Tool is the Docking Station Serial Number. If necessary, the caption can be changed. To do so, proceed as follows:

1. Right-click below the Station Status icon (Figure 37 a).
2. From the pop-up menu, select "Change Caption" (Figure 37 b).
3. Enter the desired caption for the Read/Write Tool in the Docking Station Caption dialog box (Figure 37 c), then click the OK button (Figure 37 d).

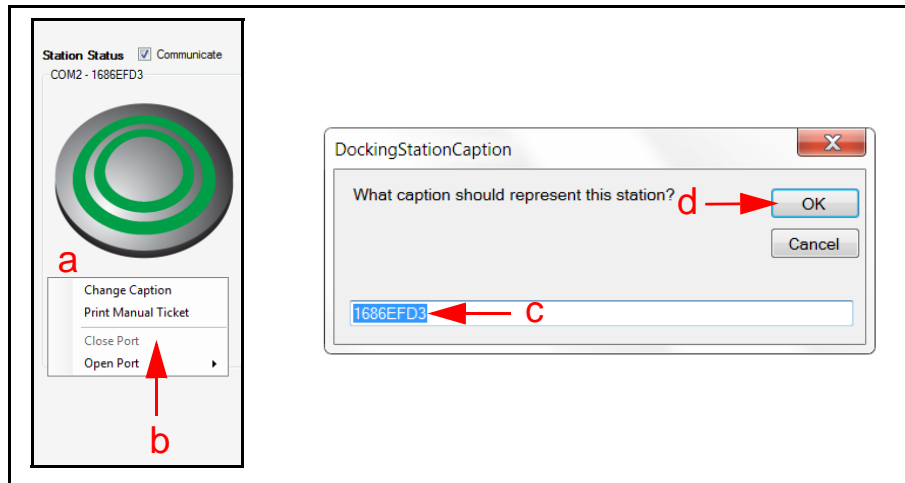


Figure 37 Changing the Station Status Identifier (Docking Station Caption)

## OVERVIEW

### FEATURES

This Training Guide is applicable to MDM4 (Multi-Download Module 4) Version 4.X.X and higher, and contains the following features:

- The MDM4 Application is used to collect ICB Data from ICB enabled Cashboxes.
- Up to four (4) Read/Write (Docking Station) Tools can be connected to the MDM application.
- MDM4 Data is written to a date/time-stamped .icb file.
- When the MDM4 application is closed, the Data File is available to ICB Web Reports.
- MDM4 interfaces with various printers to print Asset Number Barcoded Tickets or Header/Trailer Tickets.

Typical ICB MDM Hardware Components are shown in Figure 1.

### HARDWARE COMPONENT PARTS



Figure 1 ICB MDM4 Hardware Component Parts

## Lecture Notes

## MDM4 APPLICATION INSTALLATION

### INSTALLING MDM4

For most Customers, the MDM4 Application will come pre-installed on the Soft Count Room PC, and will be ready to run via 'JCM MDM' Icon located on the PC Desktop. If the MDM4 Program does need to be installed onto a PC, follow the instructions provided below:

1. The MDM4 program is included with the ICB System Software provided to the Customer. Locate and copy the MDM4 Application File onto the PC.
2. If the File is in a 'Zipped' Format, right-click on the .zip file and extract the compressed files into a separate MDM titled Folder.

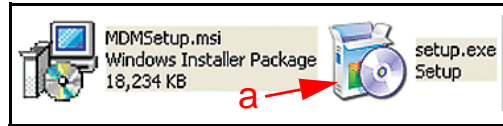


Figure 2 MDM Setup Selection Icons

3. In the unzipped MDM Folder, click to run the setup.exe Setup File (Figure 2 a).
4. The 'MDM Setup Wizard' Screen will appear. Click on the 'Next'  Screen Button (Figure 3 a) to continue.

5. Follow the on-screen instructions that appear to complete the installation procedure.



Figure 3 MDM4 Setup Wizard Screen

For additional information about the MDM Program Installation Procedure, refer to the Intelligent Cash Box (ICB®) System Operation and Maintenance Manual (JCM # 960-000044R).

### Lecture Notes

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## CHANGING THE CASH BOX NUMBER

From the MDM4 Application, the Cash Box Serial Number on an RFID (iVIZION) Cash Box can be changed. To do so, proceed as follows:

1. In the Results window, right-click on the Cash Box Number to be changed (Figure 35 a).
2. From the pop-up menu, click on 'Rename RFID Cashbox' (Figure 35 b).

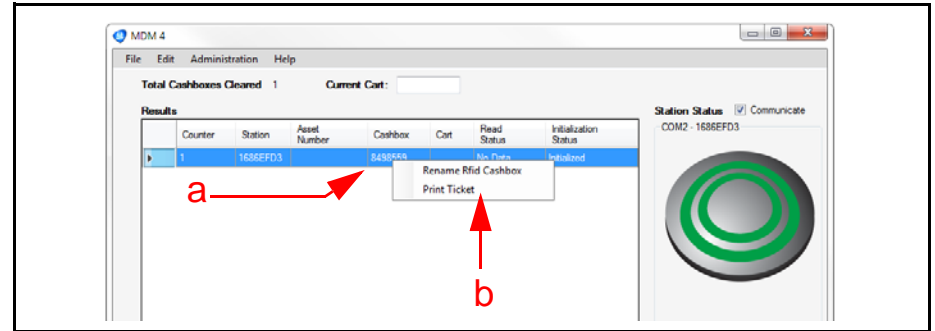


Figure 35 Selecting the Cashbox or Asset Number

3. Enter the new Cash Box Serial Number (Figure 36 a), then click 'OK' (Figure 36 b).
4. Dock the selected Cash Box to change the Serial Number.

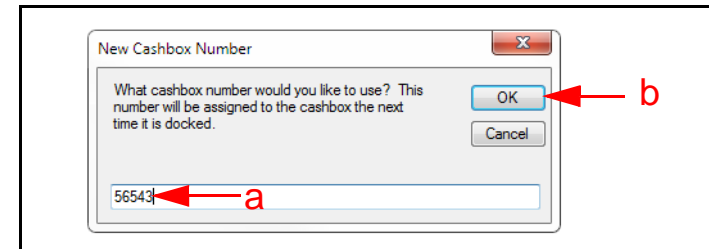


Figure 36 Entering a New Cashbox Serial Number

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### MDM PROGRAM CASH BOX DOCKING RESULTS (CONTINUED)

**Cashbox:** Indicates a numerical value representing the Cash Box Serial Number (Figure 34 f). Each Cash Box Memory contains its own unique Cash Box Serial Number. If the Cashbox Data Field is empty, cannot be read, or contains a corrupted value when docked, the MDM4 Program will automatically assign a new Number to the Cash Box. For information on Cash Box numbering, refer to Setting MDM4 Cash Box Numbers on page 12 of this guide.

**Cart:** The Cart Number associated with the Cash Box being docked (Figure 34 g).

**Read Status:** indicates the data transfer status from the Cash Box to the Read-Write Tool. If the Data Transfer was successfully completed without errors, then the Read Status will indicate 'Data OK' (See Figure 34 h). If the Read Status displays 'No Data', it indicates that the Cash Box Memory Circuit contained no data, or failed to read properly when placed on the Read-Write Tool. Try re-docking the Cash Box again. If the Read Status displays 'Checksum Error', it indicates that the Checksum value calculated by the MDM4 Program for the particular data stream just read from the Cash Box, does not match the Checksum value stored in the data stream itself. Try re-seating the Cash Box. If the failure persists, it may be due to a lost or corrupted data bit in the Memory Circuit or a defective Memory Module.

**Initialization Status:** indicates the Cash Box Status at completion of the docking process. If the display shows 'Initialized' (See Figure 34 i) it indicates that the Cash Box has been read, the data has been transferred, the Memory Circuit has been cleared, and the Cash Box is ready for use again in any Asset on the Casino Floor. If the display shows 'Not Initialized', it indicates that the Memory Circuit in the Cash Box Memory Module has not been cleared, and that Asset Data is still present in Memory. This is usually the result of docking the Cash Box to the Read-Write Tool with the 'Read Only' option set active. For information on Read and Erase options, refer to Read Only and Data Erasing Options on page 15 of this guide. If the 'Not Initialized' message is displayed while operating in the 'Read and Erase' Mode, then try re-docking the Cash Box again to re-initialize it.

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### MDM4 PROGRAM REGISTRATION


#### REGISTERING MDM4

The MDM4 Program needs to be registered with JCM prior to use. In most cases, a JCM Representative will pre-Register the Application for the Customer prior to on-site delivery of the PC. If not, MDM4 Registration may be completed as follows:

- Registration may be completed either **Automatically** or **Manually**.
  - For installations where the Host PC HAS an active Internet connection, follow the instructions provided below for '**Automatic Registration**'.
  - For installations where the Host PC DOES NOT have an active Internet connection, follow the instructions below for '**Manual Registration**'.

#### Automatic Registration:


To automatically register the MDM4 Application, proceed as follows:

1. Click on the JCM MDM Desktop shortcut Icon. 
2. The 'Automatic Registration' Screen will appear.
3. Follow the on-screen instructions for completing an Automatic Registration, and Activation of the MDM4 Application.




#### Manual Registration:

To manually register the MDM4 Application, proceed as follows:

1. Click on the JCM MDM desktop shortcut Icon. 
2. The 'Manual Registration' Screen will appear.
3. Follow the on-screen instructions for completing Manual Registration and Activation of the MDM4 Application.



 **NOTE:** The Automatic and Manual Registration processes differ from each other in the type of User Input Data being requested. Step-by-step details for these procedures are provided in the ICB System Operation and Maintenance Manual (JCM # 960-000044R).

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## STARTING THE MDM4 APPLICATION

### STARTING MDM4

 **NOTE:** Before starting the MDM4 Program ensure that the date and time displayed on the PC Desktop is correct. The PC date/time stamp is used as the reference for all timed activity in the MDM/ICB System.

To start the MDM4 Application, proceed as follows:

1. Click on the JCM MDM desktop shortcut Icon. The MDM4 Program Login Screen shown in Figure 4 will appear.
2. Enter the User Name into the 'Username' field (Figure 4 a).
3. Enter a User Password into the 'Password' field (Figure 4 b).
4. Click on the 'Login'  Screen Button (Figure 4 c). The MDM4 Main Screen will appear (refer to Figure 5 on page 7).

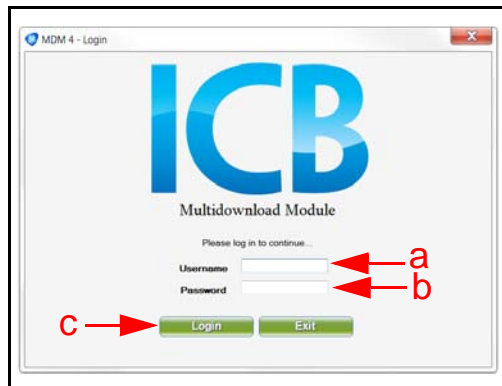
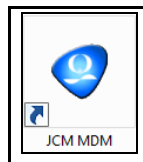


Figure 4 MDM4 Login Screen

## Lecture Notes

## MDM4 PROGRAM CASH BOX DOCKING RESULTS

As each Cash Box is docked and read, docking results and additional information (described below) are displayed on the MDM4 Main Screen (Figure 34).

**Total Cashboxes Cleared:** An incrementing numerical value indicating the total number of Cashboxes that have been docked, read, and cleared (initialized) during the currently open MDM4 Programming Session. This value starts again from Zero each time that the MDM4 Program is run (Figure 34 a).

**Current Cart:** A data entry field for inputting the Cart Number for the Cash Boxes being docked (Figure 34 b). The Cart Number is then associated with each Cash Box and shown in the Cart column (Figure 34 g).

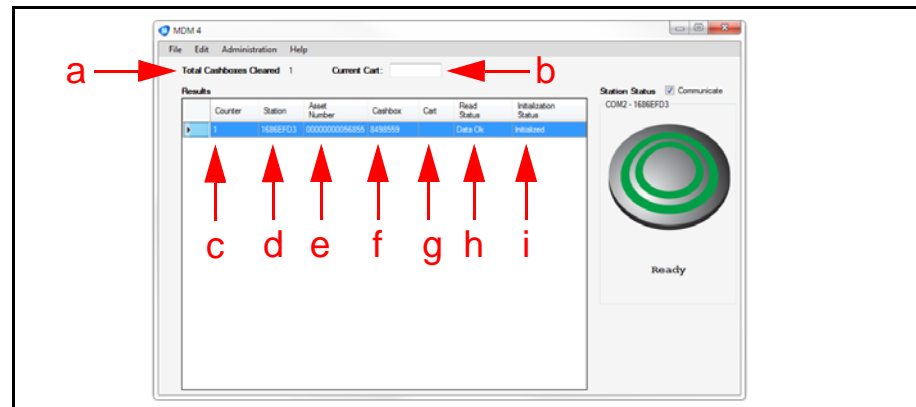


Figure 34 Cash Box Docking Results Screen

**Counter:** Indicates the total number of Cash Boxes docked, and a numerical value representing each Cash Box's position in the docking sequence. For example, a Counter Value of '1' indicates the first Cash Box docked during the current MDM4 Programming Session, while a Counter Value of '3' indicates the third Cash Box docked (Figure 34 c).

**Station:** Identifies the Read-Write Tool that docked the associated Cash Box at the time it was read (Figure 34 d). The text or value displayed here may be customized using the Station Status Identifier (refer to Page 26). If not previously defined, the default value displayed in this field will be the Read-Write Tool's Serial Number.

**Asset Number:** Indicates a numerical value identifying the Asset from which the associated Cash Box was removed during the current Drop Cycle. The value is accurate as long as the Asset Number assigned to the Bill Validator is the same as the Asset Number of the Game or Machine in which it was initially installed (Figure 34 e). If the Asset Number Data Field is empty, contains no value, or shows all Zeroes, the Cash Box failed to properly record the Asset Number. This may be due to a Validator with no Asset Number assigned, a Validator whose ICB function is disabled, an improperly seated Cash Box, or a Cashbox Memory Module error.

### DOCKING AND READING ICB CASH BOXES (CONTINUED)

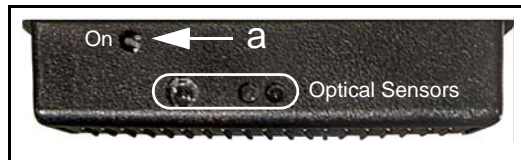
Occasionally, a Cash Box placed on the Read-Write Tool may not communicate. In this case, the 'Station Status' Graphic Indicator will display a **Yellow** colored Caution Triangle and the 'Unable to communicate with cashbox' text message (Figure 32).

If this error occurs, try one or more of the following actions:




1. Remove and re-seat the Cash Box onto the Read-Write Tool for a second read attempt.
2. For UBA and WBA Cashboxes, use a clean Microfiber Cloth to wipe the Cash Box Memory Module Optical Sensors (Figure 33), and the Optical Sensors located on the top of the Read-Write Tool clean. After cleaning, re-seat the Cash Box onto the Read-Write Tool again for another read attempt.
3. For UBA and WBA Cashboxes, verify that the ICB Enable Switch located on the Cash Box Memory Module is set to 'On'. The Switch is located adjacent to the Cash Box Optical Sensors on the Cash Box Memory Module as indicated in Figure 33a.



**Figure 32** COM Error Warning Screen



**Figure 33** ICB Memory Module Switch Location

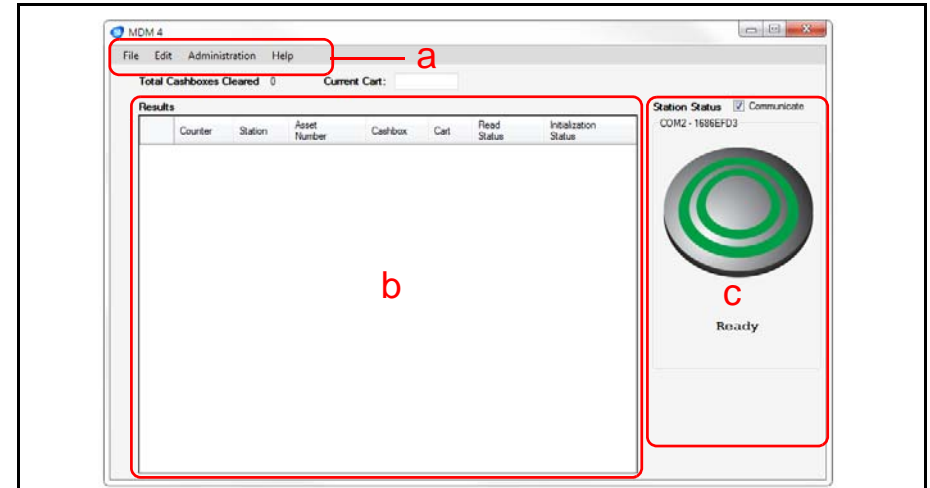
-  **NOTE:** If read errors persist, the UBA or WBA Cash Box Memory Module may be asleep or defective. Refer to the troubleshooting Appendix in the ICB Operation and Maintenance Manual (JCM # 960-000044R) for information regarding ICB Memory Module refreshing and testing procedures.
-  **NOTE:** If unable to communicate with an iVIZION Cash Box, the internal RFID Circuit may have become 'inhibited'. Re-dock the iVIZION Cash Box twice to resolve this issue.
-  **NOTE:** If a Ticket Printer is connected (and enabled), a Barcoded Ticket containing the associated Asset Number will print out for each Cash Box docked and read.

### MDM4 MAIN APPLICATION SCREEN

#### MDM4 SCREEN LAYOUT

The MDM4 Main Screen is divided into three (3) operational sections as follows:

- The top edge of the Screen (Figure 5 a) provides various pull-down Menus that allow for enabling or changing MDM4 operating parameters and programming options.



**Figure 5** MDM4 Main Screen Layout

- The left side of the Screen (Figure 5 b) provides information and status conditions related to the ICB enabled Cash Boxes docked on an active Read-Write Tool during the Soft Drop process.
- The right side of the Screen (Figure 5 c) provides real-time Graphic images that indicate the operational status of all attached Read-Write Tools, as well as indicating the operational progress during a Cash Box reading and initialization process.

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## MDM4 ACCESS AND USER PERMISSIONS

### Adding a User

To Add a User to the MDM4 Program, proceed as follows:

1. On the MDM4 Main Screen, click on the 'Administration' pull-down Menu (Figure 6 a) and select 'Users' (Figure 6 b) from the list. The MDM4 - Users Screen (Figure 7) will appear.

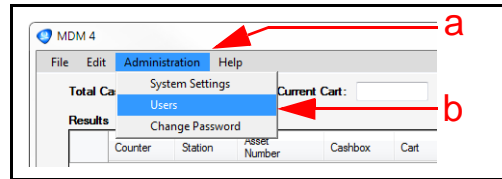




Figure 6 Administration Menu > Add User

2. Click on the 'Add'  Screen Button. (Figure 7 a)
3. When the 'New User' Screen appears, enter a Username for the User being added (Figure 8 a); then click on the 'OK'  Screen Button (Figure 8 b).

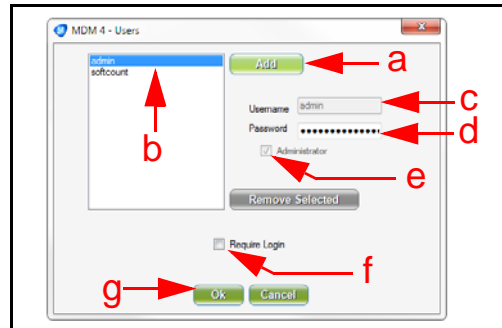


Figure 7 Add New User Screen

4. The new User will be added to the System, and both the list of Users (Figure 7 b) and the Username field (Figure 7 c) will update.
5. In the 'Password' field (Figure 7 d), enter a Password for the new User.

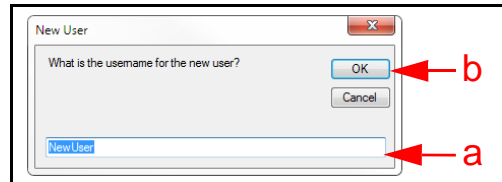




Figure 8 Enter User Name Screen

6. If the new User will need to add or remove other Users and/or change System Settings, then click select the 'Administrator' check box  (Figure 7 e).
7. To require the Login, User and Password, select the 'Require Login' check box  (Figure 7 f).

 **NOTE:** If the 'Require Login' check box is left unchecked, then MDM4 will open to the Main Screen without requiring a Login.

8. Click on the 'OK'  Screen Button (Figure 7 g) to add the new User, update the System File, and return to the MDM4 Main Screen.

## DOCKING AND READING ICB CASH BOXES

To read data from an ICB-enabled Cash Box into the MDM4 Program, proceed as follows:

1. On the MDM4 Program Main Screen, verify that the 'Station Status' Graphic Indicator is **Green** in Color, and indicates the message 'Ready' as shown in Figure 31a.
2. Place a Cash Box onto the Read-Write Tool. The data transfer from the Cash Box Memory Circuit to the Read-Write tool will start automatically. During the time that the Cash Box is being read, the 'Station Status' Graphic Indicator will change to show the Graphic representation of a Clock, and will indicate the message 'Reading' as shown in Figure 31b.
3. Once the Cash Box has been read, the MDM4 Program will initialize (clear) the Cash Box Memory Circuit. During this time, the 'Station Status' Graphic Indicator will display the text message 'Initializing' as shown in Figure 31c.
4. After the Cash Box Memory Circuit has been initialized, the 'Station Status' Graphic Indicator will change back to **Green** and will indicate 'Ready to remove' as shown in Figure 31d.

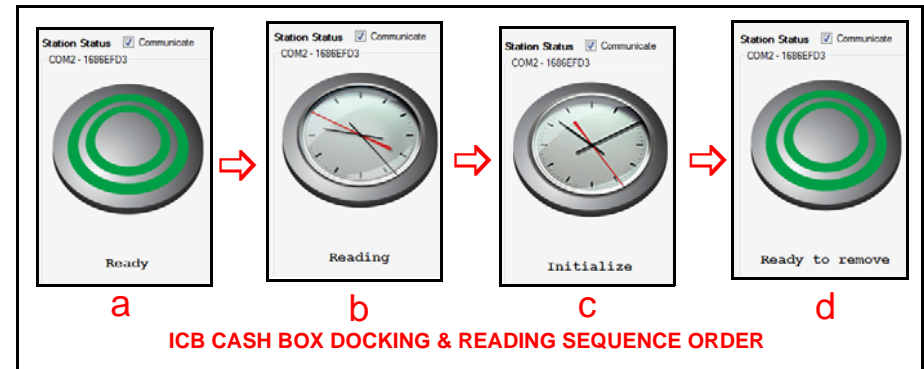


Figure 31 Cash Box Docking & Reading Sequence Screen

The Cash Box may now be removed from the Read-Write Tool, and is ready for use in any Asset on the Casino Floor. If additional Cash Boxes need to be read for this particular Drop Session, simply repeat Steps 1 through 4 above.



## COMMUNICATING WITH READ-WRITE TOOLS

Communications between the MDM4 Application and various Read-Write Tools is automatic. When the MDM4 Program is running, the Read-Write Tool's Status Indicator located on the right side of the Screen, will actively indicate the real-time Status of all Read-Write Tools connected to the System.

If a Read-Write Tool has been recognized by the System, and is ready for communication, its particular 'Station Status' Graphic Indicator will be displayed in **Green** with a text message indicating '**Ready**' (Figure 29 a). The Read-Write Tool is now ready to read and process data from the related ICB Cashboxes.

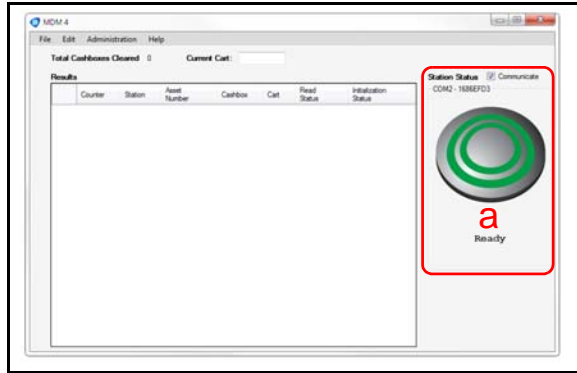


Figure 29 Read-Write Tool Ready Screen

If the 'Station Status' Graphic Indicator is displayed in **Red**, with a text message indicating '**Timeout**' (Figure 30 a), the Read-Write Tool has not yet established (or has lost) communication with the MDM4 Program, and is not ready to read the related ICB Cash Box.

In this event, try Steps 1-4 to resolve the problem:

1. Check (and reconnect, if necessary) the Serial Communications Cable connection between the Read-Write Tool's Serial output and Host PC's Serial input.
2. Verify that the Power Switch on the rear (or side) of the Read-Write Tool is set to the ON (or I) position.
3. Verify that the proper PC COM Port has been selected for use. Each Read-Write Tool connected to the Host PC needs its own active COM Port to communicate with the PC. Refer to **Selecting MDM4 Com Port Settings** on page 11 for details.
4. If the Read-Write Tool still isn't communicating, the problem could be due to an internal configuration setting within the Read-Write Tool Unit. Contact JCM Technical Support for assistance if this situation is suspected.

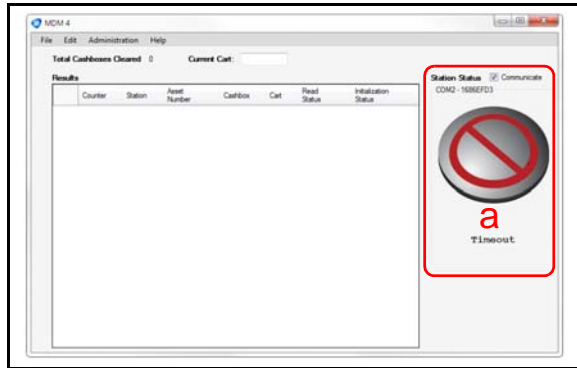


Figure 30 Read-Write Tool Timeout Screen

## MDM4 ACCESS AND USER PERMISSIONS (CONTINUED)

### Deleting a User

To Delete a User from the MDM4 Program, proceed as follows:

**NOTE:** To delete a User, you must be logged in as an Administrator!

1. Click on the 'Administration' pull-down Menu (Figure 9 a) located on the MDM4 Main Screen, and select 'Users' (Figure 9 b) from the list. The MDM4 Users Screen shown in Figure 10 will appear.
2. From the list of Users (Figure 10 a), click on the Username that is to be deleted.
3. Click the 'Remove Selected' Screen Button (Figure 10 b) to remove the selected User from the System. The Username will then be removed from the list of Users.
4. Click on the 'OK' Screen Button (Figure 10 c) to update the system and return to the MDM4 Main Screen.

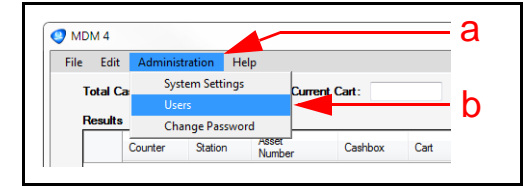


Figure 9 Select User Functions Menu

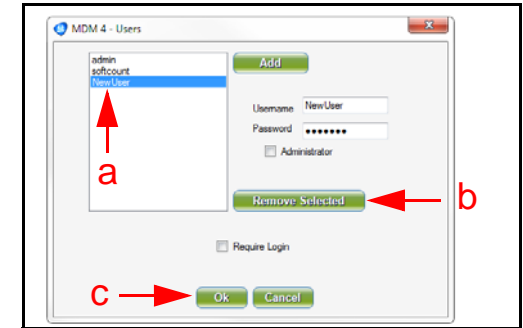



Figure 10 Delete Username Screen

## Lecture Notes

## MDM4 ACCESS AND USER PERMISSIONS (CONTINUED)

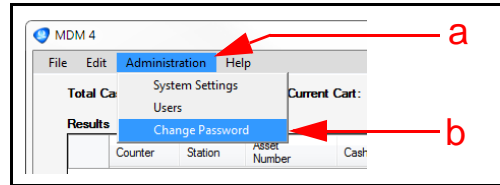
### Change User Password

Passwords can be changed by the individual User.

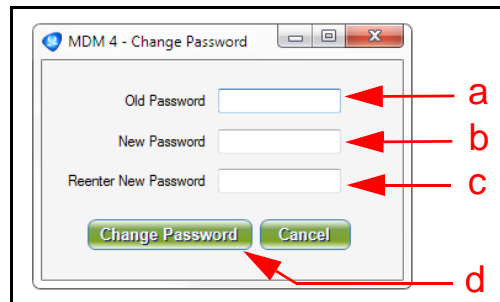
 **NOTE:** This procedure changes the Password of the User who is currently logged in.

To change an MDM4 User Password, proceed as follows:

1. Click on the 'Administration' pull-down Menu (Figure 11 a) on the MDM4 Main Screen, and select 'Change Password' (Figure 11 b) from the list. The 'Change Password' Screen shown in Figure 12 will appear.
2. Enter the User's current Password into the 'Old Password' field (Figure 12 a).
3. Enter the new Password into the 'New Password' field (Figure 12 b).
4. Verify the new Password by entering it again into the 'Reenter New Password' field (Figure 12 c).
5. Click the 'Change Password' Screen Button (Figure 12 d) to set the new Password in the MDM4 Program.
6. If a typing error occurs, or an invalid Password is entered, an error message will appear and the System will return to the 'Change Password' Screen so a different Password can be entered.



**Figure 11** Select Change Password Menu



**Figure 12** Enter New Password Screen

## Lecture Notes

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## SETTING THE LANGUAGE PREFERENCE

The MDM4 Program can be set to display screens and text in several different Languages. Currently-available Operating Language options are listed in Table 1 (below).

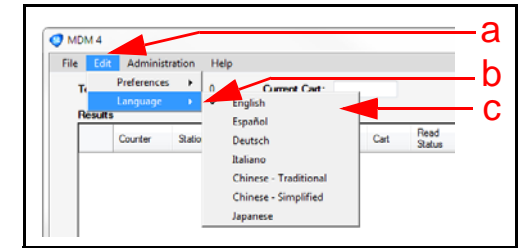
**Table 1** Language Preference Options

English (default)*	Italiano (Italian)
Español (Spanish)	Chinese (Traditional)
Deutsch (German)	Chinese (Simplified)
Japanese	


\*When the MDM4 Program is first installed, English is the default language displayed during program startup. If the Language Preference option is changed, the MDM4 Program will subsequently start and display using the new Language selection.

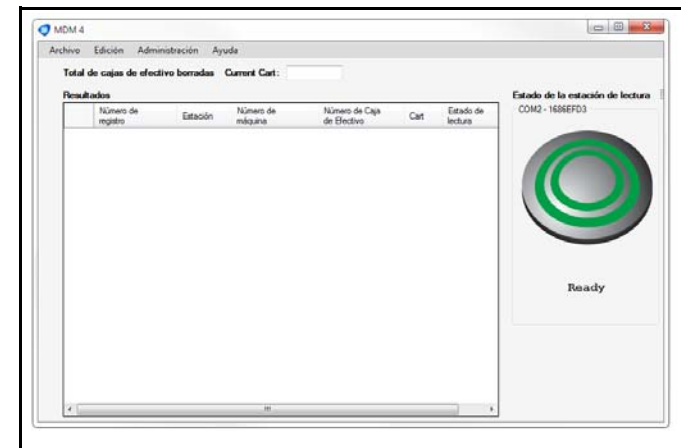
To select or change the Operating Language, proceed as follows:

1. On the MDM4 Main Screen, click on the 'Edit' pull-down Menu (Figure 27 a), then select 'Language' (Figure 27 b). A pull-down Menu of available Languages will appear, as shown in Figure 27 c.
2. Click on the desired Language for MDM4 Program Operation. The MDM program will immediately switch to and display all text and messages in the selected Operating Language.



**Figure 27** Edit Menu > Language Options

 **NOTE:** A sample screen of MDM4 operating in Spanish is shown in Figure 28.




**Figure 28** MDM4 Main Spanish Screen Example

## SETTING A CASH BOX NUMBER ALERT

The MDM4 Program can sound or display an Alert when a specific numbered Cash Box is placed on a Read-Write Tool. This feature serves as an advantage when flagging a Cash Box that needs to be pulled from a Drop.

To set a Cash Box Number Alert, proceed as follows:

1. On the MDM4 Main Screen, click on the 'Edit' pull-down Menu, then select 'Preferences' > 'Alerts' (refer to Figure 21a on page 16). The 'MDM4 Alerts' Screen shown in Figure 25 will appear.
2. Click on the 'Add'  Screen Button (Figure 25 a). When the 'Cashbox Number Search' Dialog Box appears, enter the desired Cash Box Number into the Cashbox Number field (Figure 26 a), then click the 'OK' Screen Button (Figure 26 b) to return to the MDM4 Alerts Screen.

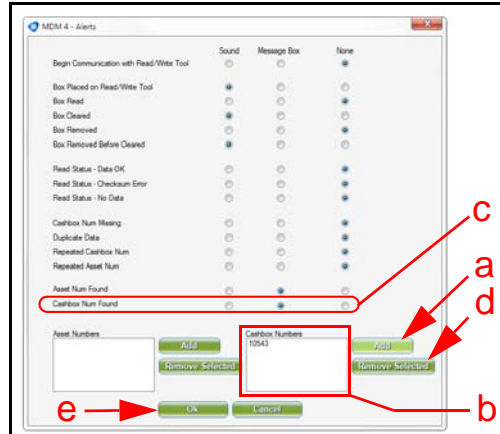


Figure 25 Setting Cash Box Alert Screen

3. The Cash Box Number just entered will appear in the 'Cashbox Number' list shown in Figure 25b. Additional Cash Box Numbers may be added to the list by repeating Step 2 above.

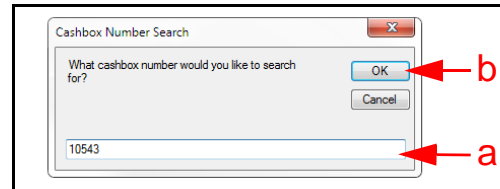


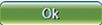


Figure 26 Enter Cash Box No. Screen

 **NOTE:** The type of Alert received when a specified Cash Box is placed on a Read-Write Tool depends on the Alert preference type selected for 'Cash Box Num Found'. Click to select the desired Alert type Radio Button (Figure 25 c).

4. Once a Cash Box has been found (and the desired alert sounded or displayed), it may be desirable to remove it from the list. To remove a Cash Box from the list of Cash Box Numbers, click on the desired Cashbox Number (Figure 25 b), and then click on the 'Remove Selected'  Screen Button (Figure 25 d).
5. When the process of adding or removing numbers from the list is complete, click on the 'OK'  Screen Button (Figure 25 e) to save the settings and return to the MDM4 Main Screen.

## SELECTING MDM4 COM PORT SETTINGS

Each Read-Write Tool being used with the MDM4 Program requires its own PC COM Port for Serial Communications. To add or remove a Communications COM Port, proceed as follows:

1. Click on the 'Administration' pull-down Menu on the MDM4 Main Screen (Figure 13 a), then select 'System Settings' (Figure 13 b).

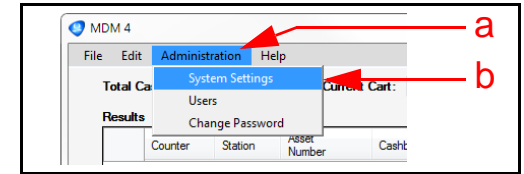


Figure 13 Select System Settings Menu 1

2. When the 'System Settings' Screen appears, click on the 'Serial Ports' tab (Figure 14 a) to display the Port configurations.

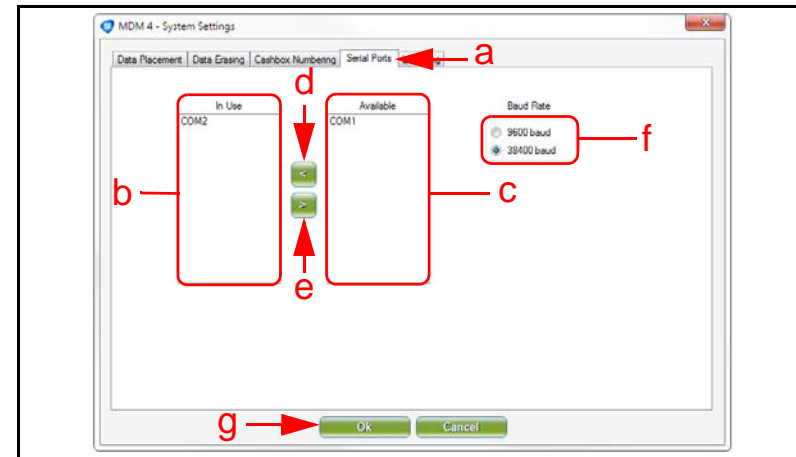







Figure 14 COM Port Settings Screen

 **NOTE:** The 'In Use' Box (Figure 14 b) displays a list of PC COM Ports currently in use. The 'Available' Box (Figure 14 c) displays a list of PC COM Ports available on the PC, but not currently used.

3. To add a COM Port, click on an available COM Port (Figure 14 c), and then click on the left Arrow  Screen Button (Figure 14 d). The selected COM Port will then be listed in the 'In Use' box (Figure 14 b).
4. To remove a COM Port, click to select it in the 'In Use' box (Figure 14 b), then click on the right Arrow  Screen Button (Figure 14 e). The selected COM Port will move back to the 'Available' box (Figure 14 c).
5. The System Baud Rate (Figure 14 f) determines the speed at which the Host PC and the connected Read-Write Tools communicate with each other. Click on the appropriate Radio Button  to select the desired Baud Rate (e.g., 9600 or 38400 Baud).
6. When all COM Port settings have been made, click select the 'OK'  Screen Button (Figure 14 g) to auto-return to the MDM4 Main Screen.

## SETTING MDM4 CASH BOX NUMBERS

During a Cash Box docking process, the MDM4 Program will assign a new Cash Box Number to any Cash Box which does not currently have an assigned Number, is found to have a missing Number or a corrupted Number. To set the Cash Box Starting Number, proceed as follows:

1. Click on the 'Administration' pull-down Menu (Figure 15 a) on the MDM4 Main Screen, then select 'System Settings' (Figure 15 b).

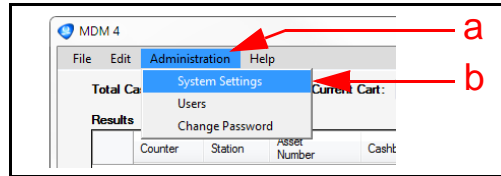


Figure 15 Select System Settings Menu 2

The 'System Settings' Screen will appear (Figure 16).

2. Click on the 'Cashbox Numbering' tab (Figure 16 a).
3. In the 'Start assigning cashbox numbers from' field (Figure 16 b), enter the Number for the MDM4 Program to use as the Cash Box Starting Point Number.

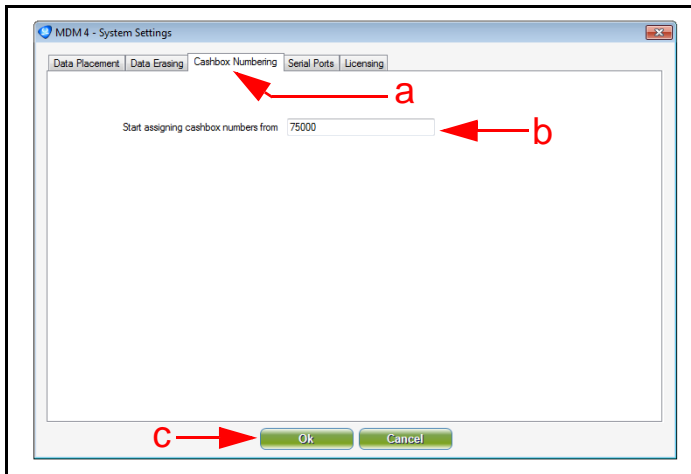


Figure 16 Cash Box Start Number Entry Screen

4. Once a starting Number has been entered, click on the 'OK' Screen Button (Figure 16 c) to set the value and return to the MDM4 Main Screen.

NOTE: When the MDM4 Program encounters a Cash Box that needs a new Number, it will automatically assign the next sequentially available Number to it based on the starting Number that was initially entered.

NOTE: When doing a new install with new un-numbered Cash Boxes, set the Cash Box starting Number to '1'. Dock all Cashboxes until each has its' own Number. Once all Cashboxes have been numbered, change the starting Number to a value at least several thousand units higher than any existing Cash Box Number in use. This will help to prevent duplicate Cash Box Numbers from showing up in the System when the MDM4 Program assigns the next new Cash Box Number.

## SETTING AN ASSET NUMBER ALERT

The MDM4 Program can sound or display an Alert when a Cash Box from a specific Asset is placed on a Read-Write Tool. This feature serves as an advantage when flagging a Cash Box that needs to be pulled from a Drop. To set an Asset Number Alert, proceed as follows:

1. On the MDM4 Main Screen, click on the 'Edit' pull-down Menu, then select 'Preferences' > 'Alerts' (refer to Figure 21 a and b). The 'MDM4 Alerts' Screen shown in Figure 23 will appear.
2. Click on the 'Add' Screen Button (Figure 23 a). When the 'Asset Number Search' dialog box shown in Figure 24 appears, enter the desired Asset Number into the Asset Number field (Figure 24 a), then click the 'OK' Screen Button (Figure 24 b) to return to the MDM4 Alerts Screen.

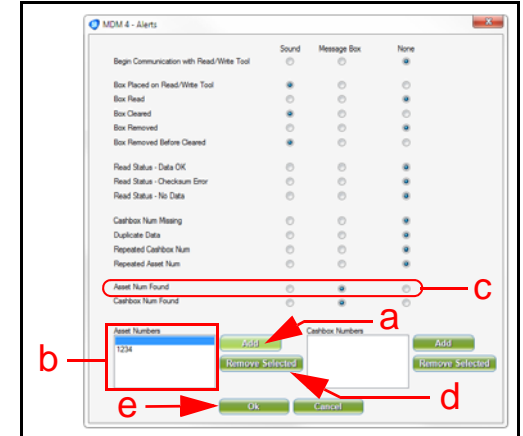


Figure 23 Asset No. Alert Setting Screen

3. The Asset Number just entered will appear in the 'Asset Number' list shown in Figure 23b. Additional Asset Numbers may be added to the list by repeating Step 2 above.

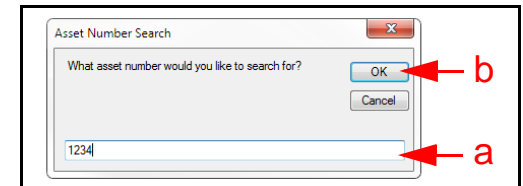


Figure 24 Enter Asset Number Dialog Box

NOTE: The type of Alert received when a specified Cash Box is placed on a Read-Write Tool depends on the Alert preference type selected for 'Asset Num Found'. Click to select the desired Alert type (Figure 23 c).

4. Once an Asset's Cash Box has been found (and the desired Alert sounded or displayed), it may be desirable to remove it from the list. To remove an Asset's Cash Box from the list of Asset Numbers, click on the desired Asset Number (Figure 23 b), and then click on the 'Remove Selected' Screen Button (Figure 23 d).
5. When finished adding or removing numbers from the list, click the 'OK' Screen Button (Figure 23 e) to save the settings and return to the MDM4 Main Screen.



## SETTING MDM4 ALERT OPTIONS

For each step through a Cash Box docking and reading process, three (3) types of alerts are available to advise the User about the current Cash Box's status. The Alert choices available include 'Sound', 'Message Box', or 'None', and are defined as follows:

- When the 'Sound' alert is selected, an audible cue occurs each time the associated action is performed. Sound alert types vary for each function.
- When the 'Message Box' alert is selected, a visual message (e.g., a Pop-up Dialog Box) occurs each time the associated action is performed. Pop-up Message type alerts vary for each function.
- When 'None' is selected, no alerts occur for that function during the Cash Box docking or reading process.

MDM4 may be set to operate with all alerts of the same type, or as a mixed combination of all three (3) types. To set Alert preferences, proceed as follows:

1. Click on the 'Edit' pull-down Menu on the MDM4 Main Screen (Figure 21 a), select 'Preferences' > 'Alerts' (Figure 21 b). The MDM4 'Alert' Screen shown in Figure 22 will appear.

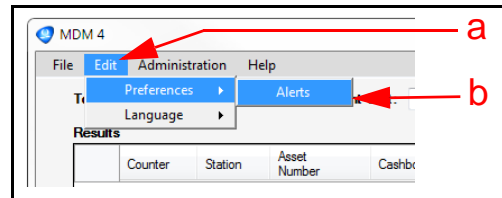


Figure 21 Select Alerts Menu

2. For each Alert action listed in Figure 22a, click on the Radio Button  to select the type of notification desired (Sound, Message Box, or None).
3. When all Alert Options have been selected, click the 'OK' Screen Button (Figure 22 b) to return to the MDM4 Main Screen.

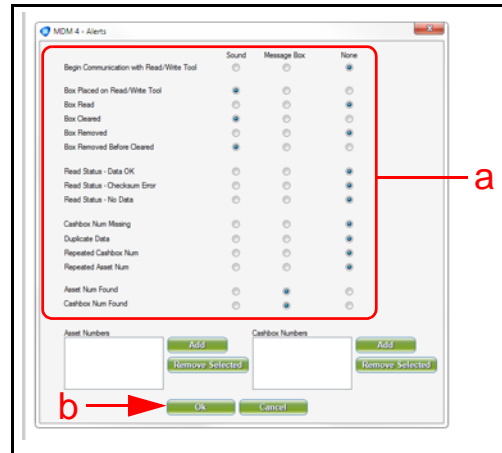


Figure 22 Alert Selection Screen

## DEFINING MDM4 DATA FILE STORAGE LOCATION

The MDM4 Program saves all data read from each ICB Cash Box to a 'date-time' stamped Data File within a Data Folder located on the Host PC at 'C:\data'. If desired, the User may change this default storage location, and add or remove additional storage locations. Additional data options allow data provisions to be added to the IGT Advantage System. The options can be specified on the MDM4 'Data Placement' Screen, and accessed as follows:

1. Click on the 'Administration' pull-down Menu on the MDM4 Main Screen (Figure 17 a).
2. Select 'System Settings' (Figure 17 b).

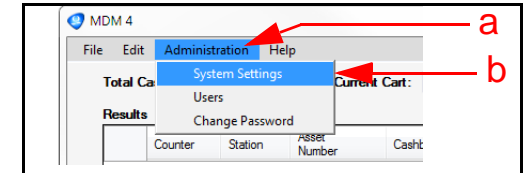


Figure 17 Select System Settings Menu 3

The System Settings 'Data Placement' Screen (Figure 18) will appear. The Screen is divided into the following four (4) Sections (described on Page 14):

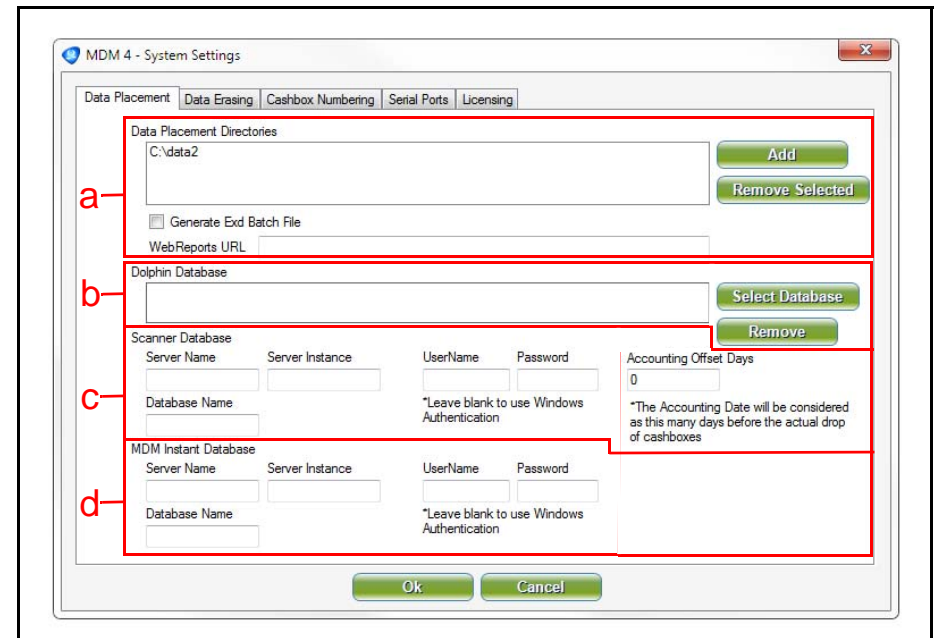



Figure 18 Data Placement Screen

## DEFINING MDM4 DATA FILE STORAGE LOCATION (CONTINUED)

- A. **Data Placement Directories** – This section (Figure 18 a) specifies the location where MDM Data Files required by the ICB Web Reports Application are stored. The default storage location is 'C:\data' on the Host PC where the MDM4 Program is installed. The 'Add' and 'Remove Selected' screen buttons may be used to add, change, or remove File storage locations, as required.
- B. **Dolphin Database** – This section (refer to Figure 18 b) is designed for Customers that use the IGT Advantage Accounting System that existed prior to Version 8.2 Service Pack 6. The 'Select Database' and 'Remove' Screen Buttons allow the User to Browse for, select, and/or change the Dolphin Database File.
- C. **Scanner Database** – This section (refer to Figure 18 c) is designed for Customers using the IGT Advantage Accounting System that exists after Version 8.2 Service Pack 6 and later. Depending on the SQL Server Configuration, some or all of the Data Entry Fields may need to be populated.

 **NOTE:** Refer to the ICB System Operation and Maintenance Manual (JCM P/N 960-00044R) for detailed instructions on working with and filling in the Data Entry fields on the Data Placement screen.

- D. **MDM Instant Database** – This section (refer to Figure 18 d) allows Cashbox data to be immediately available to be viewed when the Cashbox is docked on the Read/Write Tool without closing MDM. Enter the Server Name, Server Instance and Database Name to enable the Instant Database feature.

## Lecture Notes

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## READ ONLY AND DATA ERASING OPTIONS

The MDM4 Program supports two (2) modes of operation:

- **Read and Erase Mode** – This mode of operation is most often used during the Soft Drop Process in a Count Room. In this mode, when an ICB Cash Box is placed on a Read-Write Tool, the MDM4 Program will read the data, and then clear (initialize) the Cash Box Memory Circuit. The Cash Box is then ready for re-use in any Game on the Casino Floor.
- **Read Only Mode** – In this mode, MDM reads data from the Cash Box Memory Circuit, but DOES NOT erase it. The data in the Cash Box Memory remains intact, and the Cash Box can be reinstalled into the Game from which it was removed. 'Read Only' Mode is intended for use as a troubleshooting tool to verify that data transfers occur to and from a functioning ICB Cash Box.

To select the desired Data Erasing Mode, proceed as follows:

1. Click on the 'Administration' pull-down Menu on the MDM4 Main Screen (Figure 19 a), and select 'System Settings' (Figure 19 b). When the 'System Settings' Screen appears, click on the 'Data Erasing' tab (Figure 20 a).

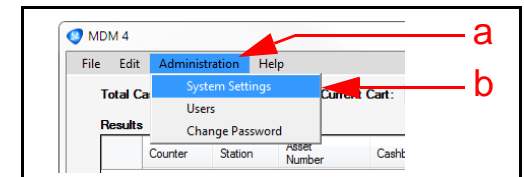


Figure 19 Select System Settings Menu 4

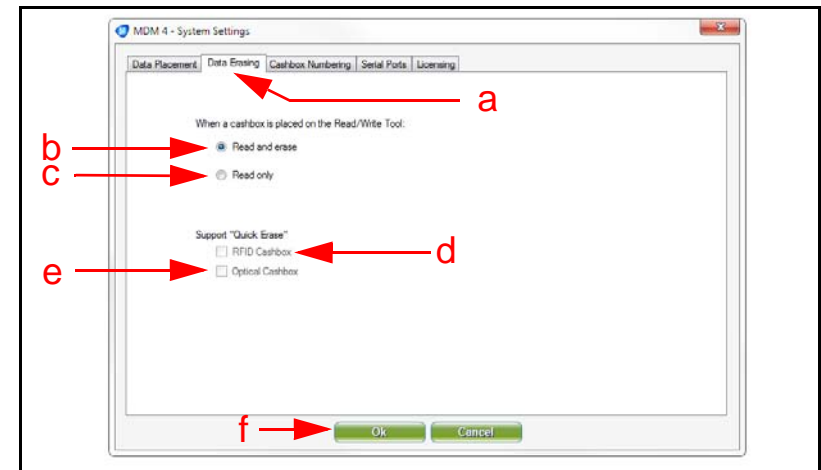


Figure 20 Select Data Erasing Options

2. To use the 'Read and Erase Mode', click the 'Read and Erase' Radio Button  (Figure 20 b).
3. For 'Read Only Mode', click the 'Read Only' Radio Button  (Figure 20 c).
4. The Support "Quick Erase" feature allows an RFID Cashbox and/or Optical Cash Box to be docked faster. To enable this feature, click the 'RFID Cashbox' check box  (Figure 20 d) and/or the 'Optical Cashbox' check box  (Figure 20 e).
5. Click 'OK'  (Figure 20 f) to return to the MDM4 Main Screen.