



CIMA 7000

Operations Manual

ADD-ON TECHNOLOGIES TRAINING GUIDE



DynaCore™

[AddOnTechnologies.com](https://www.AddOnTechnologies.com)



Table of Contents

Icon Key	5
User Login Screen.....	6
Online Transactions	8
Online Deposits	9
How to Use the Deposit Hotkey	11
Online Withdrawals.....	12
How to Use the Withdrawal Hotkey.....	14
TCR Transactions	15
TCR Buy	17
TCR Sell	18
Manual Transactions	19
Exchange.....	21
Banks.....	23
Duress Transactions	24
Remote Queue Transactions	26
View Inventory.....	30
Inventory Screen.....	31
Inventory Detail.....	32
Inventory Management.....	34
Remove Notes	35
How to Remove Notes	37
Empty Notes	38
How to Empty Notes	40
Load Notes	41



How to Load Notes.....	43
How to Load Coin.....	44
Journal View.....	45
Reports.....	49
Inventory.....	50
Activity.....	52
Clearing Activity.....	56
User Totals.....	59
Teller Batching.....	61
Include Manager Totals.....	63
DynaCore Configuration Settings.....	65
User Setup (Must have either User or Group Management Permission).....	67
Group Settings.....	68
User Management.....	70
Hardware Settings (Must have Hardware Setup Permission).....	72
Machine Settings.....	72
Printer Settings.....	74
Coin Settings.....	74
Inventory Control (Must have Inventory Control Permission).....	75
AutoMix Settings.....	75
Other Inventory Control Features.....	79
Security (Must have Security Setup Permission).....	80
Vault Timer.....	80
Duress Settings.....	81
Network Setup (Must have Network Setup Permission).....	82



DynaConfig.....	85
Update Firmware (Must have Update Firmware Permission)	86
Reboot Core (Must have Reboot System Permission)	87
Default Core (Must have Default System Permission).....	88
Warnings	89
Releasing Duress Lockout (Requires Duress Mode Exit Permission)	92
TCR Communication Settings	93
Required Tools	93
The Moxa Box – Construction	93
Configuring the Moxa Box	94
Balancing	99

Icon Key



Located in the top right of the Configuration menu, clicking this icon opens a window with information about DynaCore™ including the TCR model, Subscription Period, etc.



Warnings exist. Hovering over this icon will let you see what warnings are currently registered in DynaCore™.



The toggle icon allows you to switch between viewing certain options. For example, in the View Inventory screen it switches between showing the notes in dollar amounts and number of notes.



Cassette is missing



Cassette is in a manipulated state



Cassette is empty



Cassette inventory is between 1% and 25%



Cassette inventory is between 26% and 50%



Cassette inventory is between 51% and 75%

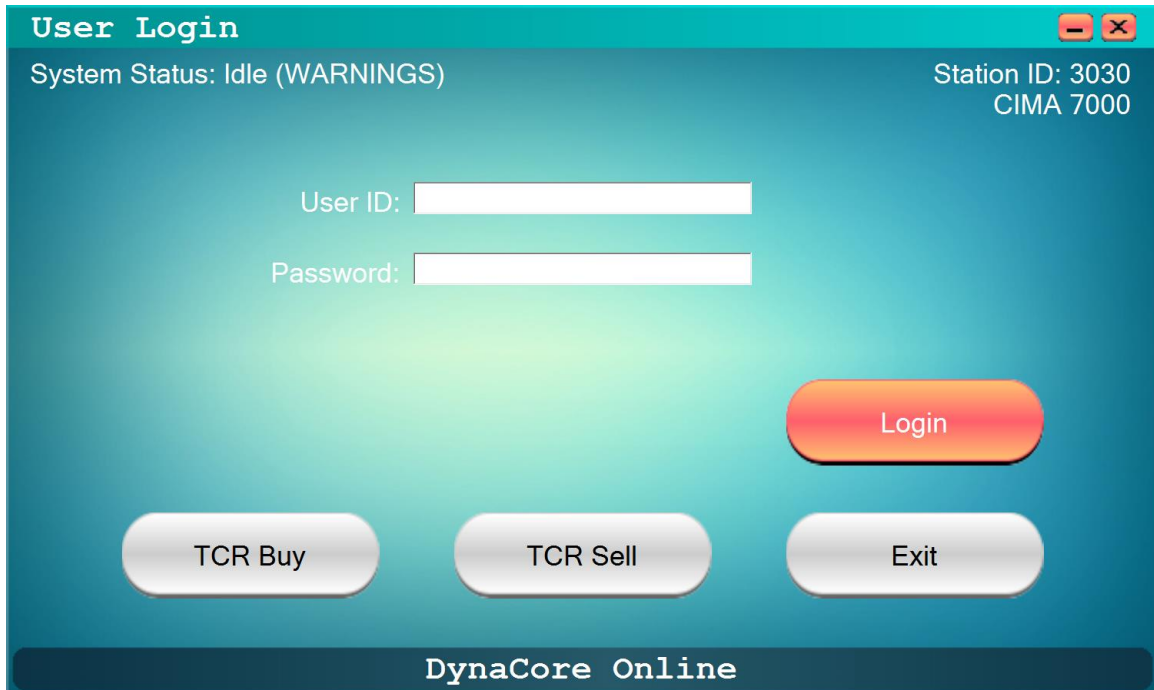


Cassette inventory is between 76% and 100%



User Login Screen

When you first launch DynaCore, you will see the User Login screen. To log into DynaCore, type your username and password into the fields provided and click Login or press Enter.



➤ PARTS OF THE MENU

System Status – In the top left of the Login screen there is a message displaying the System Status for the DynaCore appliance. In the example shown above the DynaCore appliance is shown as “Idle”, meaning it is not currently performing any functions and is available for use. Additionally, the “(WARNINGS)” added to the end shows that there are one or more issues with the system; these can be checked in the Warnings menu after you have logged in. The System Status can also show as “Busy”, indicating the system is currently performing some function and cannot respond immediately. This “Busy” signal will be followed by the User ID of the person currently occupying DynaCore, or “System Initializing” which indicates that the DynaCore appliance is still booting up.



Station ID – In the top right of the Login screen there is a message displaying the Station ID, a unique alphanumeric identifier given to each DynaCore appliance on your network, and the type of Teller Cash Recycler (TCR) this instance of DynaCore is programmed to connect to.

Connectivity – The message across the bottom of the Login screen shows the connection status of the DynaCore console software on the teller workstation with the DynaCore appliance. In the example shown above the message displays DynaCore Online, indicating that the DynaCore appliance is connected to the DynaCore console software. If the message displays DynaCore Offline this indicates that the DynaCore console software is unable to connect to the DynaCore appliance or the DynaCore appliance is turned off.

TCR Buy – The TCR Buy button available on the Login Screen allows a user to take cash out of the TCR without affecting a customer account. To do a TCR Buy from the login screen type your user credentials into the User ID and Password login fields, **DO NOT** click Login, and instead click TCR Buy. See the [TCR Transactions](#) section beginning on page 15 of this manual for more information on performing a TCR Buy.

TCR Sell – The TCR Sell button available on the Login Screen allows a user to put cash in the TCR without affecting a customer account. To do a TCR Sell from the login screen type your user credentials into the User ID and Password login fields, **DO NOT** click Login, and instead click TCR Sell. See the [TCR Transactions](#) section beginning on page 15 of this manual for more information on performing a TCR Sell.



Online Transactions

DynaCore uses hotkeys that the teller can press on their keyboard to trigger deposits and withdrawals. The online transaction functions are intended to integrate the TCR into your existing infrastructure (i.e., teller application, bill discriminator, etc.) as seamlessly as possible. Each function will require one or more screens in your teller application to be on your computer monitor to work properly.

For example, the deposit hotkey is used to activate a cash-in transaction with the TCR, so you might configure your online deposits to work with any screen where you enter a deposit amount. That way, whenever you do a deposit transaction in your teller application, you can hit your deposit hotkey and place the deposited cash directly into the TCR.

The withdrawal hotkey can be used to do cash-out transactions with a specific mixture of denominations (denominated) or, if you do not denominate the dispense, the notes will be dispensed according to a predefined denomination AutoMix preference. Pressing the Withdrawal hotkey pops up a window with the cash amount shown as an available balance; the teller then selects the number of bills of each denomination from a list or completes the transaction with the AutoMix settings.

Online transactions can also be configured to autofill the total amount and/or individual denomination amounts in your teller application. If configured properly, DynaCore will enter the pertinent information into the teller application automatically once an online transaction is complete, eliminating the need for double entry of these numbers. Additionally, you can attach an alphanumeric memo of up to 30 characters to any online transactions in case additional information about a transaction should be recorded.

The Withdrawal and Deposit hotkeys are set with the DynaConfig utility during initial system setup. Please contact your DynaCore dealer if you wish to change your hotkeys.



Online Deposits

Use the Online Deposit Hotkey on the designated screen in your teller application to open the Deposit window. This screen will let you store notes in the TCR as part of a customer transaction.

Deposit

Type	Deposit	Verified	Drawer	Total
\$100	0.00	0.00	0.00	0.00
\$50	0.00	0.00	0.00	0.00
\$20	0.00	0.00	0.00	0.00
\$10	0.00	0.00	0.00	0.00
\$5	0.00	0.00	0.00	0.00
\$2	0.00	0.00	0.00	0.00
\$1	0.00	0.00	0.00	0.00
Coin	0.00	0.00	0.00	0.00
Total:	0.00	0.00	0.00	0.00

Verified

Clear

Clear

Memo:


Reverse

Quit

Place Notes In TCR Entrance

PARTS OF THE MENU


Type – The Type column is on the left of the Deposit screen, and it shows the denominations that can be stored in the TCR. This column also displays a Relative Fullness Indicator next to each denomination. This indicator shows about how full of dispensable bills of each denomination the TCR is.

Deposit – The Deposit column shows notes that have been stored in the TCR as part of this transaction. You can use the  icon to switch this column between showing bill counts or total value amounts.

Verified – The Verified column shows notes and coins that have been run through a bill discriminator or coin sorter connected to DynaCore. For example, if there were strapped bundles of notes as part of the deposit but you did not want to put them into the TCR, you could verify the amounts and enter them here to record them as part of the deposit even though you are not putting them into the TCR. After the notes have been verified



by the discriminator, use the print option on the discriminator to send the totals over to DynaCore. They will automatically fill the appropriate spots on the column. Once the totals have been filled into the Verified column you can clear the values back to 0 by clicking either the Bills Clear button and/or Coin Clear button as appropriate. These totals are not part of the teller's End of Day Buy/Sell and should be considered part of the teller's drawer. Talk to your DynaCore dealer for information on connecting a bill discriminator or coin sorter to DynaCore.

Drawer – The Drawer column shows notes that are part of the deposit but will not be stored in the TCR. This could include notes that the TCR will not accept, notes your TCR is not programmed to store (e.g., \$2s), etc. These notes could instead be stored in a teller drawer or somewhere similar instead of in the TCR vault. Any bills that are part of the deposit but are not stored in the TCR will have to be manually typed into this column. They are not included in the teller's End of Day Buy/Sell. You can clear the totals in this column by clicking the  icon in the column header.

Total – The Total column shows the grand total of all notes involved in the deposit. It is a sum of the Deposit, Verified, and Drawer columns.

Bills Clear – This button will only be present if the DynaCore Controller is configured to work with a bill discriminator. If there are bill totals in the Verified column, clicking this button will clear those bill totals.

Coin Clear – This button will only be present if the DynaCore Controller is configured to work with a coin sorter. If there is a coin total in the Verified column, clicking this button will clear that coin total.

Memo – The Memo field can be used to record any notes or additional information about the transaction you are doing.

Reverse – The Reverse button is only functional when there are notes stored in the TCR as part of a deposit. When you click the button the TCR will dispense all the notes it has taken in as part of that deposit.

Quit/Accept – The Quit/Accept button in the bottom right of the screen will change between those two options depending on whether you have totals in any of the columns. If all columns are empty the button will say "Quit" and will terminate the deposit. If you have totals entered in any of the columns the button will say "Accept" and will end and record the transaction.



How to Use the Deposit Hotkey

When you are doing a cash-in transaction for a customer and are ready to store notes in the TCR as part of the transaction, make sure your teller application is front and focused, then press the Deposit Hot Key. This will open the Deposit window, shown below.

Deposit					
Type	Deposit	Verified	Drawer	Total	Verified
\$100	0.00	0.00	0.00	0.00	Clear
\$50	0.00	0.00	0.00	0.00	Clear
\$20	0.00	0.00	0.00	0.00	Memo: <input type="text"/>
\$10	0.00	0.00	0.00	0.00	
\$5	0.00	0.00	0.00	0.00	Reverse
\$2	0.00	0.00	0.00	0.00	
\$1	0.00	0.00	0.00	0.00	Quit
Coin	0.00	0.00	0.00	0.00	
Total:	0.00	0.00	0.00	0.00	

Place Notes In TCR Entrance

Place any notes you want stored in the TCR onto the hopper on top of the machine. They will be taken into the TCR, counted, sorted, and stored in the vault. The counted totals will be shown in the Deposit column. If you have rejected notes in the exit, you will be prompted to remove them by a message at the bottom of the Deposit window.

Remove Rejected Notes From Exit

Anything that is part of this deposit but will not be stored in the TCR (e.g., loose coin, mutilated notes, etc.) can be stored in your teller drawer and typed into the Drawer column.

If you have bills you want to verify and include as part of this deposit but do not want to store them in the TCR, you can run them through a bill discriminator connected to DynaCore, hit print on the discriminator, and the totals will be filled into the Verified column.

If you would like to record any notes or additional information about your transaction, you can do so by typing into the Memo field. When you are satisfied with the transaction click Accept to finalize and record it



Online Withdrawals

Use the Online Withdrawal Hotkey on the designated screen in your teller application to open the Withdrawal window. This screen will let you use the notes in the TCR as part of a customer cash-out transaction.

Withdrawal		
Type	Inventory	Amount
\$100	0	0.00
\$50	0	0.00
\$20	5	0.00
\$10	4	0.00
\$5	8	0.00
\$1	20	0.00
Used:		0.00
Balance:		123.89

Amount:

Use Bundles

Drawer Cash:

Memo:

Waiting to dispense

➤ PARTS OF THE MENU

Type – The Type column is on the left of the Withdrawal screen, and it shows the denominations stored in the TCR. This column also displays a Relative Fullness Indicator next to each denomination. This indicator shows about how full of dispensable bills of each denomination the TCR is.

Inventory – The Inventory column shows the number of notes of each denomination available to be dispensed from the TCR.

Amount/Quantity – The column Amount/Quantity lets you denominate the withdrawal amount. Type into the fields in this column how many of each denomination you want the TCR to give you as part of the withdrawal. You can use the icon to switch this column between showing total value (Amount) or bill counts (Quantity).

Amount – The Amount field in the top right of the menu shows the amount to be withdrawn from the TCR. When doing an Online Withdrawal with the Withdrawal hotkey the Amount field will be prefilled with an amount it read from the designated screen in your teller application so make sure it is the correct amount before proceeding with the transaction. You will not be able to alter this field while doing an Online Withdrawal.



Use Bundles – The Use Bundles option will cause notes to be dispensed from the TCR in predetermined amounts. If you request a number of notes of a given denomination that exceeds your bundle size the TCR will dispense one bundle of the denomination, wait for you to remove it, then dispense another bundle worth of notes and wait for you to remove it, and then repeat this process until the full amount is dispensed. The number of bills in a bundle of a given denomination is controlled by the Teller Bundle Size setting and is set during initial system setup; please speak to your DynaCore dealer if you wish to change your bundle sizes.

Drawer Cash – The Drawer Cash option on the right side of the menu is where you would list any money that is part of the withdrawal but is not being taken out of the TCR. Rolled coins, stamps, etc. would all need to be manually typed into the Drawer Cash field. For example, if a customer wanted to withdraw \$100 with 4 \$20 notes and the rest in rolled quarters the transaction would look like this.

Type	Inventory	Amount
\$100	0	0.00
\$50	0	0.00
\$20	5	80.00
\$10	4	0.00
\$5	8	0.00
\$1	20	0.00
Used:		100.00
Balance:		0.00

Amount: 100.00
 Use Bundles
Drawer Cash: 20.00
Memo:
Cancel
Dispense

Waiting to dispense...

By listing the \$20 as Drawer Cash, DynaCore knows not to dispense that portion of the total amount shown in the top right.

Memo – The Memo field can be used to record any notes or additional information about the transaction you are doing.

Cancel – The Cancel button will terminate the transaction and close the Withdrawal window.

Dispense – The Dispense button will end and record the transaction and begin dispensing the amounts entered in the Amount/Quantity column or, if you left these fields blank, according to the AutoMix settings.



How to Use the Withdrawal Hotkey

When you are doing a cash-out transaction with a customer and are ready to remove notes from the TCR as part of the transaction, make sure your teller application is front and focused, then press the Withdrawal Hot Key. This will bring up the Withdrawal window, shown below.

Type	Inventory	Amount
\$100	0	0.00
\$50	0	0.00
\$20	5	0.00
\$10	4	0.00
\$5	8	0.00
\$1	20	0.00
Used:		0.00
Balance:		123.89

Amount: 123.89

Use Bundles

Drawer Cash:

Memo:

Cancel

Dispense

Warning: Waiting to dispense

DynaCore will pull the amount of the withdrawal from your teller application and prefill it into the Amount field in the top right of the menu.

Type the breakdown of denominations you want from the TCR in the Amount column. If you prefer to enter the number of notes for each denomination instead of the total value, click the icon to change the column to Quantity. Or you can leave the Amount / Quantity column blank and the TCR will dispense notes to fulfill the transaction according to the AutoMix settings saved in DynaCore.

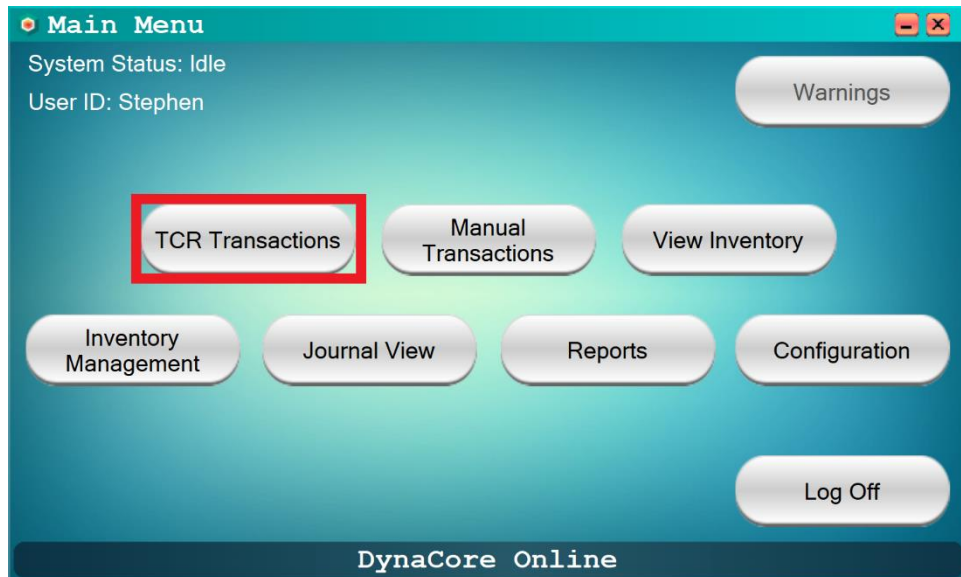
If you want the notes dispensed in Teller Bundles check the Use Bundles box. If you want part of the withdrawal amount to be filled with something other than notes from the TCR (e.g., rolled coin) you can type the amount into the Drawer Cash field. If you would like to record any notes or additional information about your transaction, you can do so by typing into the Memo field.

When you are satisfied and ready for the notes to be dispensed, click the Dispense button. DynaCore will then finalize and record the transaction.



TCR Transactions

The TCR Transactions functions in DynaCore allow tellers to move money between their teller drawers and the TCR without interacting with a customer's account. These functions are identical to the TCR Buy and TCR Sell functions available on the Login Screen.

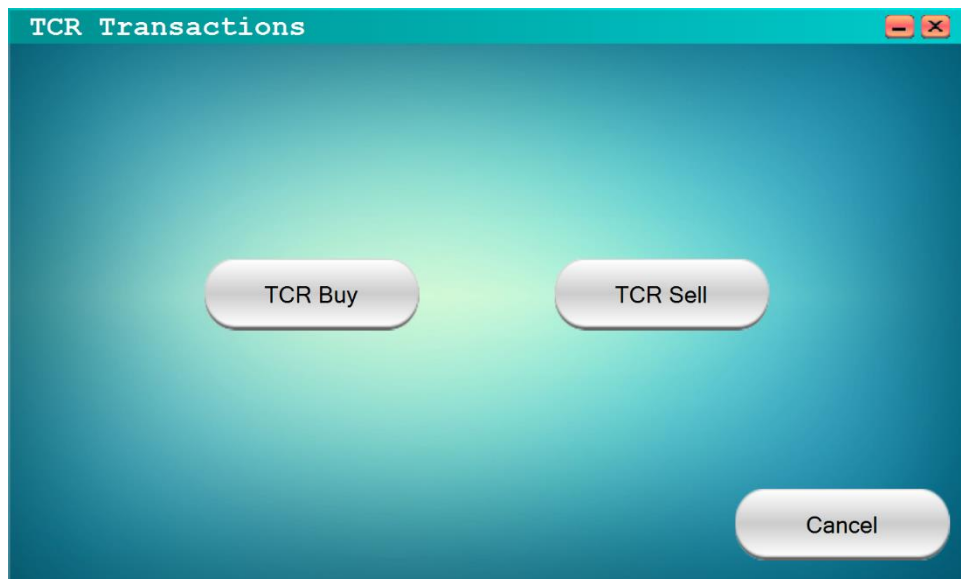


To do a TCR Buy or TCR Sell from the DynaCore main screen, select the option highlighted above. This will take you to a login screen for the TCR transactions. Enter your user credentials here and click Login. The TCR transaction will be attributed to whomever logs into this screen, not the user that logged into the primary DynaCore login screen.



The image shows a software window titled "TCR Transactions" with a teal header. The window has a light blue gradient background. It contains two input fields: "User ID:" and "Password:". Below the "Password:" field is a red "Login" button and a white "Cancel" button.

This will take you to a screen where you can choose between performing a TCR Buy or a TCR Sell, pictured below. Click TCR Buy to remove notes from the TCR and TCR Sell to put notes into the TCR.



The image shows a software window titled "TCR Transactions" with a teal header. The window has a light blue gradient background. It contains two buttons: "TCR Buy" and "TCR Sell". At the bottom right, there is a white "Cancel" button.

Note that this method will only work for Vault Transactions from the DynaCore base screen. Please see the [User Login Screen](#) section on page 6 of this manual for information on how to access TCR Buys/Sells from the login screen.



TCR Buy

The TCR Buy screen lets a user remove notes from the TCR to resupply a teller drawer. TCR Buys are tracked as part of a teller's User Totals. This means that multiple TCR Buys can be done throughout the day and only require the teller to balance once at the end of the day by checking their User Totals. Please see page 59 for more information on [User Totals](#) and page 99 for more information on end of day [Balancing](#).

To do a TCR Buy, enter your user log in credentials on the Log In screen, then click the TCR Buy button. This will bring you to the TCR Buy screen pictured below.

Type	Inventory	Amount
\$100	0	0.00
\$50	0	0.00
\$20	5	40.00
\$10	4	20.00
\$5	8	20.00
\$1	20	20.00
Used:		100.00
Balance:		0.00

Amount: 100.00

Use Bundles

Memo:

Cancel

Dispense

⚠ Waiting to dispense...

Type the total dollar amount you want to remove from the TCR in the field at the top right labeled "Amount:" and press "Enter" on your keyboard. Then, fill in the Amount column with the amount of each denomination you want as part of the transaction. If you do not fully use the amount you entered and have a remaining balance, as in the example shown above, you **WILL NOT** be able to complete the TCR Buy. You must fully denominate out the dispense amount you entered in the top right "Amount:" field.

You also have the option to have the TCR Buy dispense as Bundles by checking the box next to Use Bundles in the top right corner of the screen. How many bills are in a bundle for each denomination is controlled by the Teller Bundles setting under Inventory Control in the Configuration screen. Please see page 79 of this manual for more information on [Bundles](#).



TCR Sell

The TCR Sell screen lets a user put notes into the TCR from their teller drawer without affecting a customer's account. TCR Sells are tracked as part of a teller's User Totals. This means that multiple TCR Sells can be done throughout the day and only require the teller to balance once at the end of the day by checking their User Totals. Please see page 59 for more information on [User Totals](#) and page 99 for more information on end of day [Balancing](#).

To do a TCR Sell, enter your user log in credentials on the Log In screen, then click the TCR Sell button. This will bring you to the TCR Sell screen pictured below. From here the TCR is ready to take in notes as soon as you place them on the hopper.

TCR Sell

Type	Deposited	Verified	Drawer	Total	Memo:
\$100	0.00	0.00	0.00	0.00	
\$50	0.00	0.00	0.00	0.00	
\$20	0.00	0.00	0.00	0.00	
\$10	0.00	0.00	0.00	0.00	
\$5	0.00	0.00	0.00	0.00	
\$2	0.00	0.00	0.00	0.00	
\$1	0.00	0.00	0.00	0.00	
Total:	0.00	0.00	0.00	0.00	

Reverse

Quit

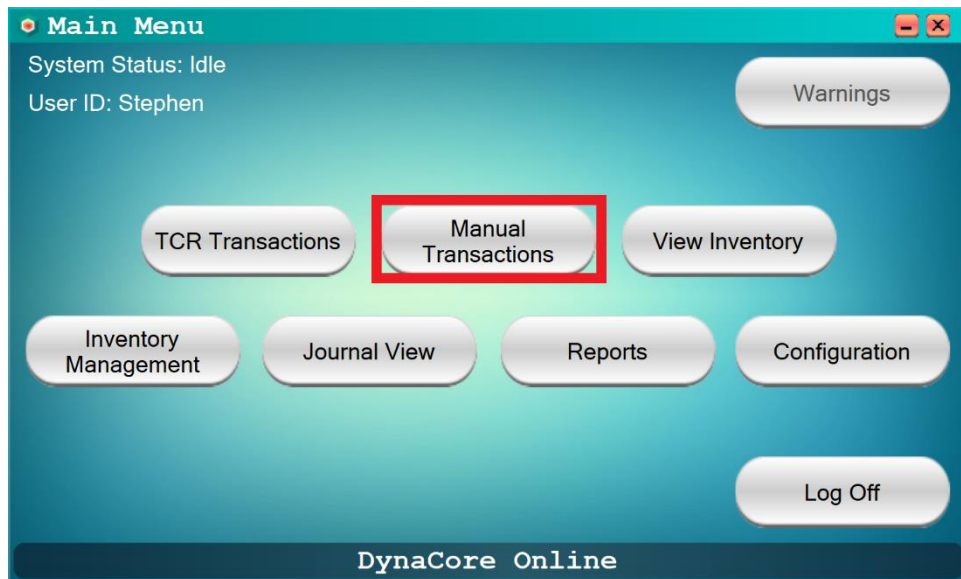
Place Notes In TCR Entrance

Once you have loaded notes into the TCR the amounts of each denomination will be displayed in the Deposited and Total columns, as shown above. After the money has been loaded, you can add more to the TCR Sell by simply putting more notes onto the hopper. You also have the option to remove ALL the notes you put into the TCR by clicking the Reverse button on the right side of the screen.

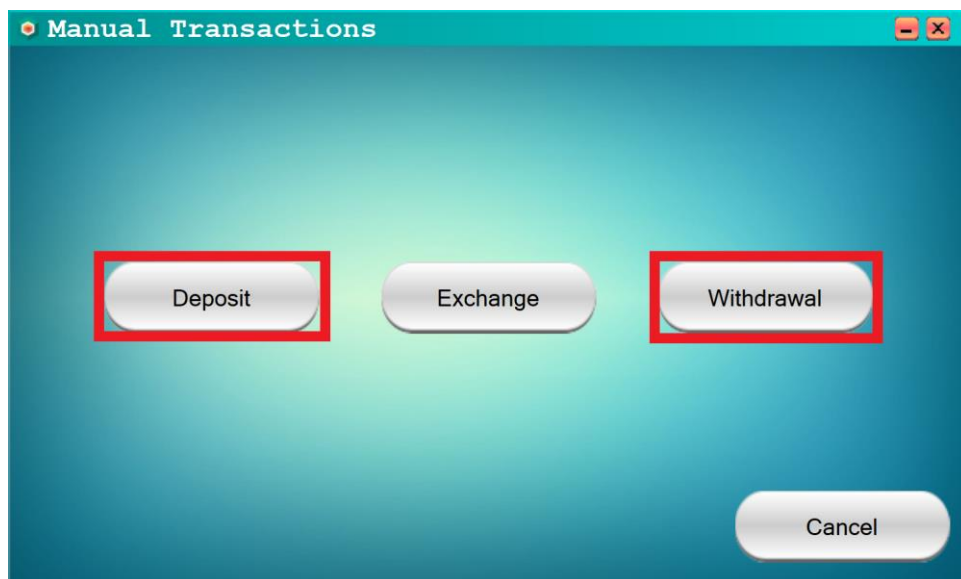
When you are satisfied with the amount loaded into the TCR you can complete the TCR Sell by clicking Accept on the right side of the screen.

Manual Transactions

The Manual Transactions menu gives tellers an option to do deposits or withdrawals without having to use the keyboard hotkeys or have a specific screen on their monitor.



Click on the Manual Transactions button from the base menu, shown above, and you will be given the option to perform either a Deposit or a Withdrawal, as shown below.



From here, you will be taken to either the Manual Deposit or Withdrawal screen. These are nearly identical to the [Online Transactions](#) screens discussed beginning on page 8 of this manual, with a few minor differences.



The first difference between Manual and Online transactions is that manual transactions do not require you to have a certain screen on your monitor or to use the keyboard hotkeys at all. Simply navigate to the Manual Transactions screen in DynaCore and perform the desired transaction. Additionally, you can assign an Online transaction hotkey to open the Manual Transactions window. This option also does not interact directly with your teller application.

Further, unlike Online Transactions, Manual Transactions cannot autofill any numbers into your teller application. This is a result of Manual Transactions not requiring any specific screen to be on your computer monitor. One of the primary intended purposes on the Manual Transactions is as a sort of second chance if you complete a customer transaction but forget to use your Online Transaction hotkeys. In such a situation you can complete the customer transaction as normal and use the Manual Transaction functions to add or remove bills from the TCR. Additionally, if your financial institution allows it, Manual Transactions can be used in the event your teller application cannot be accessed, allowing you to continue processing transactions. You can then go back and run the transactions in your teller application once it is available again.

Additionally, you can attach an alphanumeric memo of up to 30 characters to any manual transactions in case additional information about a transaction should be recorded.

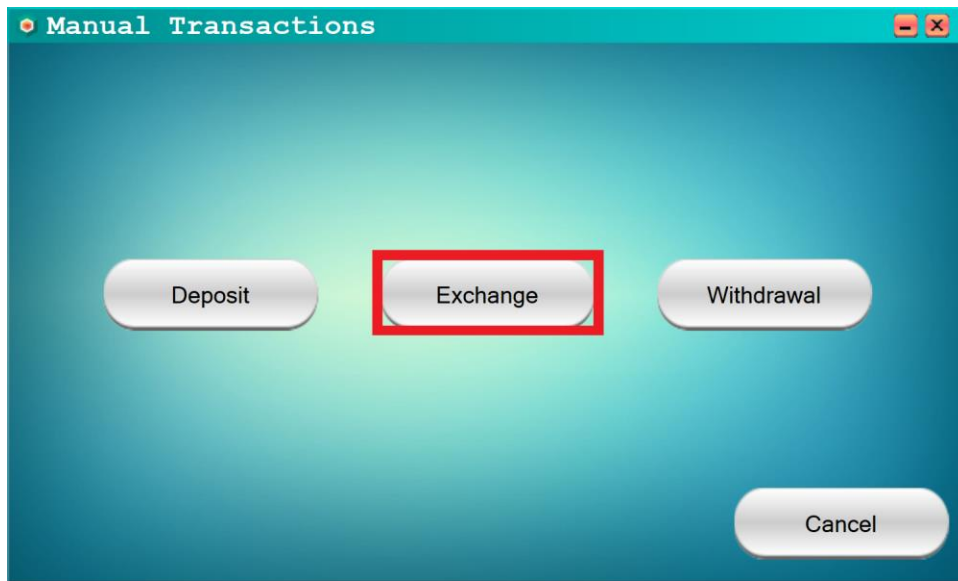
Finally, if you do a Manual Withdrawal the amount of the withdrawal will not be automatically filled in as it is with an Online Withdrawal. You will need to type the amount of the withdrawal into the Amount field in the top right of the menu and hit Enter on your keyboard. Once you do this you will not be able to change the amount. To change the amount, you will have to cancel the withdrawal and start a new transaction.

For more information on how to use the Manual Transaction functions please reference the [Online Transactions](#) sections on page 8 of this manual. Apart from the differences mentioned above the Manual Transactions function identically to the Online Transactions.



Exchange

There is a third type of Manual Transaction, called a bill exchange. The purpose of the exchange feature is to allow a teller to convert a sum of cash from one denomination breakdown to another, e.g., converting a \$100 bill into 100 \$1 bills, as shown in the example below.



The first step of performing a bill exchange is to open the Manual Transactions menu and click the Exchange button. This will take you to a special deposit screen, as shown below.



This Exchange Deposit screen functions the same as a Manual Deposit, except that it will automatically take you to a withdrawal screen when you click Accept.



Exchange Withdrawal

Type	Inventory	Amount
\$100	200.00	0.00
\$50	100.00	0.00
\$20	280.00	0.00
\$10	200.00	0.00
\$5	200.00	0.00
\$1	198.00	100.00
Used:		100.00
Balance:		0.00

Amount: 100.00
 Use Bundles
Memo:
Cancel
Dispense

Waiting to dispense...

The Exchange Withdrawal screen will have the amount you deposited into the TCR on the previous screen prefilled into the Amount field in the top right corner. This amount cannot be changed. Here, the teller can denominate how they want the cash to come out of the TCR, then click dispense. If the teller doesn't fill out the denomination totals the TCR will fall back to the AutoMix settings, just as it does with a regular withdrawal.

After the bill exchange transaction is complete, it will be recorded in the Journal View as two separate transactions, and "Exchange – Deposit" followed by an "Exchange – Dispense", as shown in the example to the right. All the usual information for transactions, including the active user, date and time, cash breakdown, and any memos are included in the journal record of the exchange.

```
-----
(Exchange - Deposit)
Transaction #                10
12/29/23 11:03 AM
Test
Inventory Snapshot          1078.00

Denom      Pieces      Value
$100             1      100.00
Machine Total      100.00
Deposit Total      100.00
-----

(Exchange - Dispense)
Transaction #                11
12/29/23 11:06 AM
Test
Inventory Snapshot          1178.00

Denom      Pieces      Value
$1             100      100.00

Amount Tendered          100.00
-----
Station: GLR100 12/29/2023
```



Banks

Banks are predetermined bill mixes that can be quickly dispensed to streamline distributing funds to employees. They are primarily intended for use outside of the traditional banking environment. Banks may not be available at your financial institution. Consult with your DynaCore system administrator or DynaCore hardware provider on whether your DynaCore system is configured to use Banks.

If the Banks feature is enabled, it will take the place of manual withdrawals, i.e., if you can dispense banks then you cannot perform a manual withdrawal as described earlier in this manual. Refer to the [Manual Transactions](#) section on page 19 of this manual for more information on the subject.

Withdrawal

Type	Inventory	Quantity	Bank Name
\$100		4	0
\$50		2	0
\$20		25	0
\$10		137	0
\$5		115	0
\$1		848	0
Used:			0.00
Balance:			0.00

Bank Name: Valet, Cashier, Concierge

Memo:

Cancel

Dispense

⚠️ Waiting to dispense...

As shown in the example above, you cannot type in an amount to be dispensed or how to denominate the sum during a Manual Withdrawal if you are using banks. You can only select one of the predetermined Banks to be dispensed.



Duress Transactions

A duress dispense, there is no duress deposit, is a transaction that the teller triggers during a robbery scenario by pressing a special dedicated hotkey. When a teller is logged into DynaCore, the duress hotkey can be triggered from any screen, or even if the program is minimized on the taskbar. When a duress dispense is triggered, a predetermined amount of money will be sent to the exit on the TCR, the same as if the teller performed a regular withdrawal transaction. When the duress dispense is recorded in the Journal View it will look like the example shown below.

```
Bank Inc
123 fake street
DynaCore City, NC
Drive up

Station: 78
Branch: 1
Region: 2

Logon: Stephen
02/01/24 01:08 PM

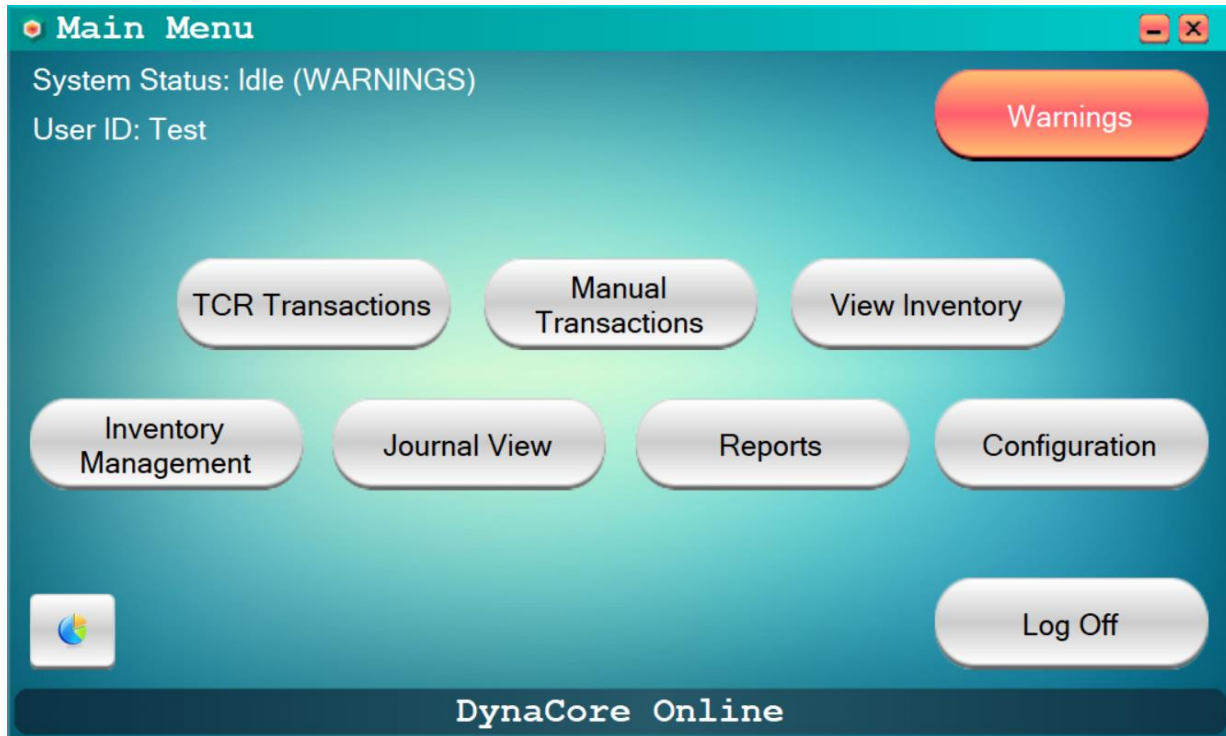
(Duress Dispense)
Transaction # 2
02/01/24 01:08 PM
Stephen
Inventory Snapshot 3994.00

Denom Pieces Value
$1 10 10.00

Amount Tendered 10.00
-----
Station: 78 02/01/2024
```

The transaction is labeled as a “Duress Dispense” and records all the same information as a standard withdrawal.

Additional Duress Dispense Options – By default, the only way to trigger a duress dispense is to hit the duress hotkey that is set in the DynaCore configuration. However, there is an additional optional way to trigger a duress dispense. As shown below, if you enable the Duress button it will be in the bottom left corner of the main DynaCore menu.



Clicking this button will have the same effect as hitting the duress hotkey, following all the same parameters set in the DynaCore configuration.

Additionally, the duress dispense can be set to trigger the TCR's silent alarm, if it is connected to your alarm system, as well as locking the machine so that no additional funds can be withdrawn until the lockout is released. Please see the [Security](#) section on page 80 of this manual for more information on these options and how to configure them.



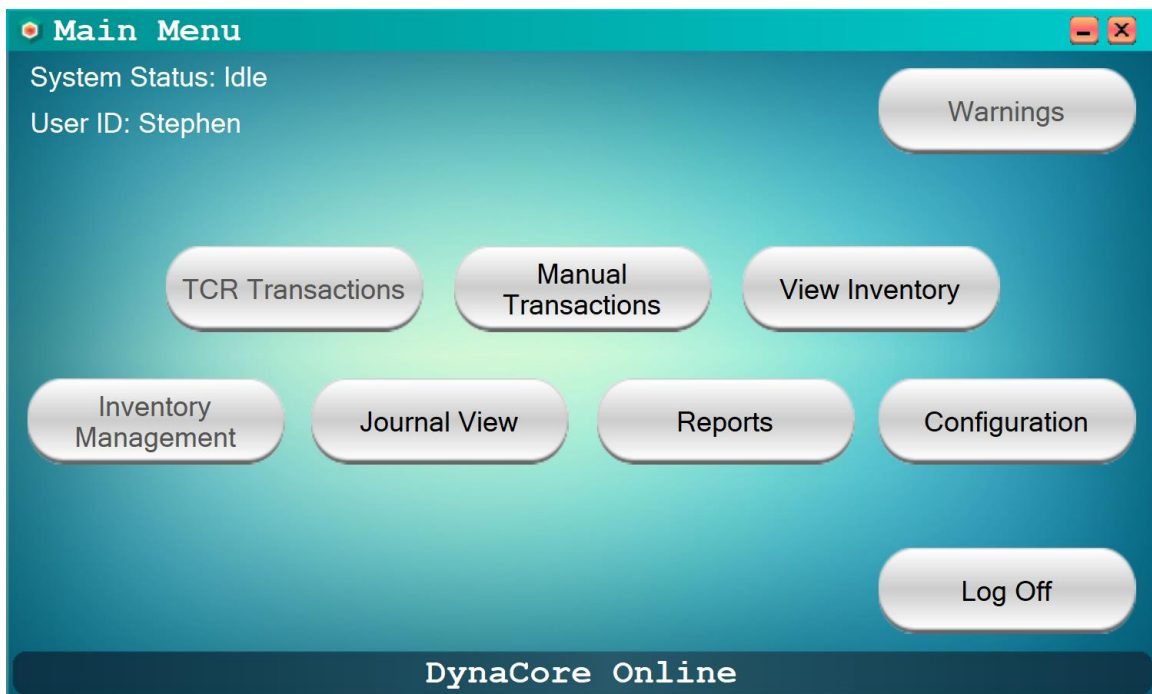
Remote Queue Transactions

Remote Queue Transactions may not be available at your financial institution. Consult with your DynaCore system administrator or DynaCore hardware provider on whether your DynaCore system is set up for Remote Queue Transactions.

Remote Queue Transactions function almost identically to the [Manual Transactions](#) discussed on page 19 of this manual. The only difference is that for a Remote transaction the user initiates the Deposit or Withdrawal transaction at the DynaCore Remote Queue Client Station and completes the transaction at a separate location, the DynaCore Base Station.

The DynaCore Remote Client is usually installed on a user's normal workstation. For example, a Customer Service Representative (CSR) might work primarily in an office away from the standard teller line and have the DynaCore Remote Client installed on their office PC so that they can initiate transactions without leaving their office. The DynaCore Base Station is usually installed on a device that is physically close to the TCR. With this arrangement, the CSR would initiate either a deposit or withdrawal in their office at the DynaCore Remote Queue Client Station, then leave their office and go to the TCR to finalize the transaction at the DynaCore Base Station.

To do a Remote Queue Transaction, first log into the DynaCore Remote Queue Client.



The DynaCore Remote Client only supports Manual Transactions, so some of the usual functions of DynaCore will be disabled, including the TCR Transactions and Inventory Management buttons that are disabled in the above image. Click the Manual



Transactions button to initiate a queued Deposit or Withdrawal transaction. In this example, a Manual Withdrawal is performed at the Remote Client station.

Withdrawal

Type	Inventory	Amount
\$100	0	0.00
\$50	0	0.00
\$20	5	0.00
\$10	4	0.00
\$5	8	0.00
\$1	20	0.00
Used:		0.00
Balance:		100.00

Amount:

Use Bundles

Drawer Cash:

Memo:

Waiting to dispense

Complete the this dispense as explained in the [Manual Transactions](#) section on page 19 of this manual. You may either denominate the transaction at this point or wait until you are at the DynaCore Base Station to complete the transaction before you denominate it. When you are ready, click Dispense to put the transaction in the Remote Queue.

Manual Transactions

Dispense Queued

Your dispense request is queued and waiting to be processed at the base station. You may cancel the request at any time before the transaction is initiated.



After sending the dispense or deposit request from the Remote Queue Client Station, the user should see a status message that informs the user that the transaction is in the queue and that the request may be cancelled at any point before the user initiates the transaction at the DynaCore Base Station. To complete the transaction, go to the DynaCore Base Station and login using the Queue Login button instead of the normal Login button, as shown below.



At the DynaCore Base Station, the user will enter the same credentials that they used when initially logging into the DynaCore Remote Queue Client Station. It is important to select the Queue Login option rather than selecting Login or pressing ENTER to accept the login credentials as this may cause a Redundant User warning message to appear.

Note: The number of queued transactions will display in parentheses on the Queue Login option. When there are no queued transactions, the parentheses will not appear next to Queue Login.



Withdrawal

Type	Inventory	Amount
\$100	0	0.00
\$50	0	0.00
\$20	5	0.00
\$10	4	0.00
\$5	8	0.00
\$1	20	0.00
Used:		0.00
Balance:		100.00

Amount:

Use Bundles

Drawer Cash:

Memo:

Waiting to dispense

Upon logging in, the user will see either a Withdrawal or Deposit screen. The functionality is identical to a standard Manual Withdrawal or Manual Deposit transaction. At the DynaCore Remote Queue Client station, the status message will change to inform the user that the transaction is processing at the Base Station and upon completion will return to the main DynaCore hub screen.

Optionally, the DynaCore controller can be set to give out a PIN number that is required to release a transaction, rather than a specific teller's login credentials. If you set the DynaCore Remote Queue to require a PIN number, the user will be given a pop-up like the one shown below when they send their transaction to the queue. They will then need to enter the PIN number at the DynaCore base station to release the transaction.

Deposit Queued

PIN: 7891

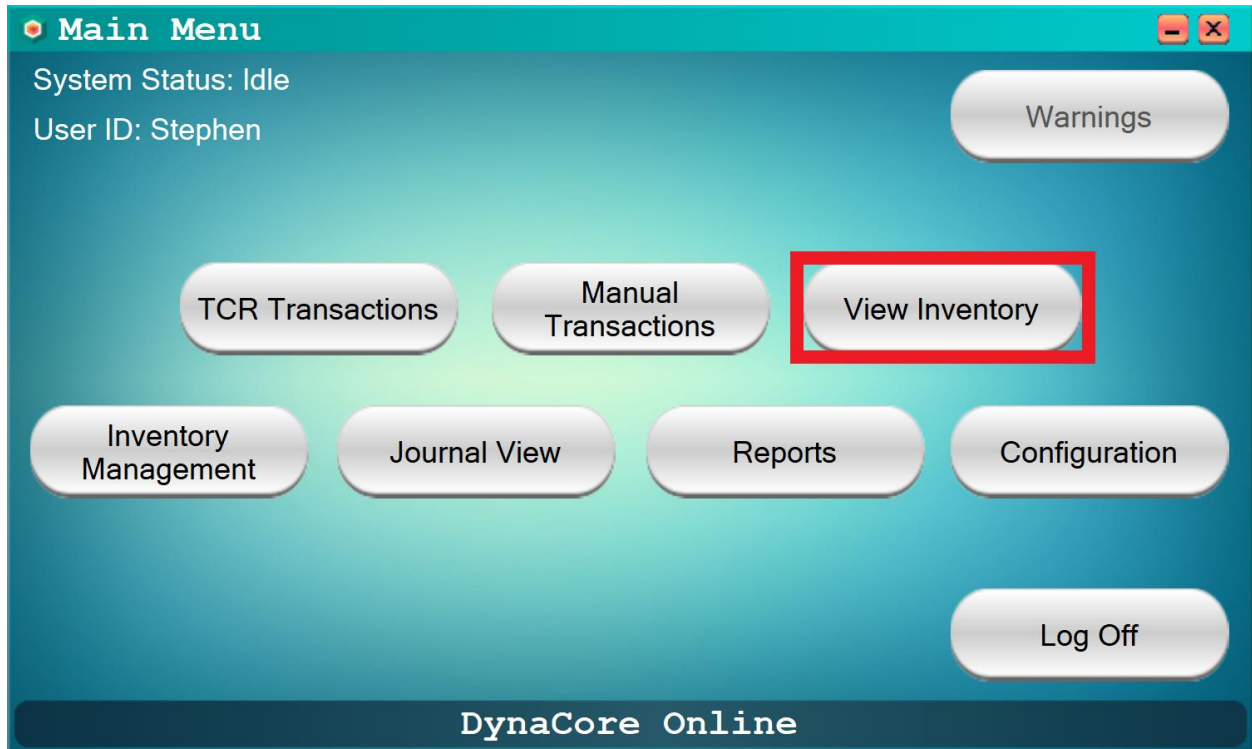
Your deposit request is queued and waiting to be processed at the base station. You may cancel the request at any time before the transaction is initiated.

Speak to your DynaCore dealer about enabling this option.



View Inventory

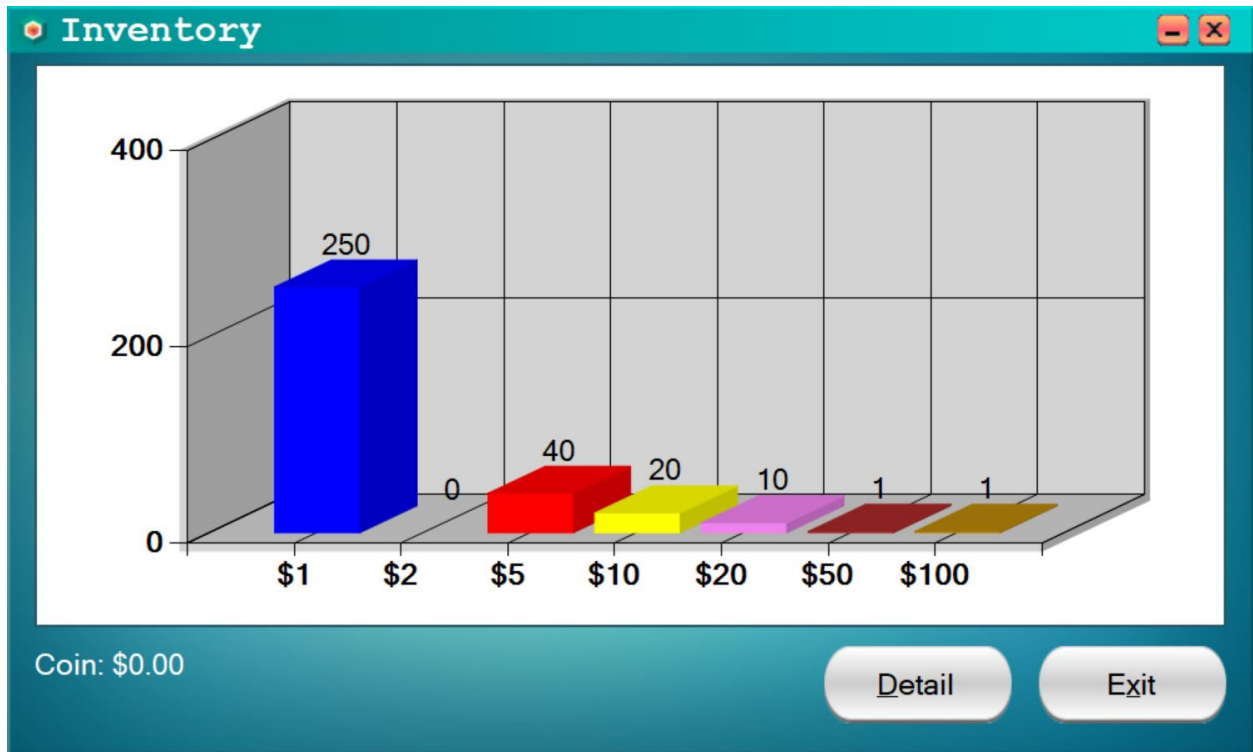
You can check the inventory in your TCR from the Main Screen by clicking the View Inventory button





Inventory Screen

On the Inventory screen there is a bar chart illustrating the inventory in the TCR.



Each denomination is represented with a different colored bar. Their heights are relative to each other, not the capacity of the machine. For example, in the above chart the \$10s (yellow bar) is over halfway up the chart because of its relation to how many bills there are of the other denominations even though the \$10s cassette is less than halfway full.

Additionally, if you have a coin dispenser attached to DynaCore you can see that inventory in the bottom left corner of the Inventory screen.

If you want a more detailed accounting of the TCR's inventory, click the Detail button in the lower right of the screen.



Inventory Detail

Type	Dispensable	Amount
\$100	100.00	100.00
\$50	50.00	50.00
\$20	200.00	200.00
\$10	200.00	200.00
\$5	200.00	200.00
\$2	0.00	0.00
\$1	250.00	250.00
Total:	1,000.00	1,000.00


RSM View
Coin: \$0.00

Print Back Exit

➤ PARTS OF THE MENU

Type – The Type column shows the available denominations used by the TCR. To the left of the denomination type there is an indicator that shows how full each cassette is with the given denomination.

Dispensable – The Dispensable column shows what notes in the TCR are available for withdrawals and TCR buys.

Amount/Quantity – The Amount column shows the dollar value of all bills of the given denomination stored in the machine. You can click the  icon to change this column to show Quantity. This will make all columns display the total number of bills instead of the dollar amount.

RSM View – By default, the current TCR inventory is displayed based on the denominations in total. However, the RSM (Rolled Storage Module) View checkbox will show the current inventory in the TCR based on where it is stored in the TCR, as shown



below. The column on the left indicates both the RSM's position in the TCR and what denomination it holds, while the two columns to the right indicate the total number of bills and the total value of those bills in each cassette.

RSM	Quantity	Amount
2 \$100	0	0.00
3 \$5	40	200.00
4 \$10	20	200.00
5 \$20	10	200.00
6 \$20	0	0.00
7 \$50	1	50.00
8 \$1	250	250.00
Total:	322	1,000.00

RSM View
 Coin: \$0.00

Print Back Exit

Coin – You can see the Coin inventory saved into DynaCore at the bottom left of the screen.

Print – The Print button at the bottom of the screen sends a detailed inventory report to a designated printer. Whether the report prints with Amount or Quantity shown depends on how you have the column set in the Inventory Detail page shown above. To the right is an example of what this report looks like.

DynaCore - Inventory Detail (Station ID: 3030)

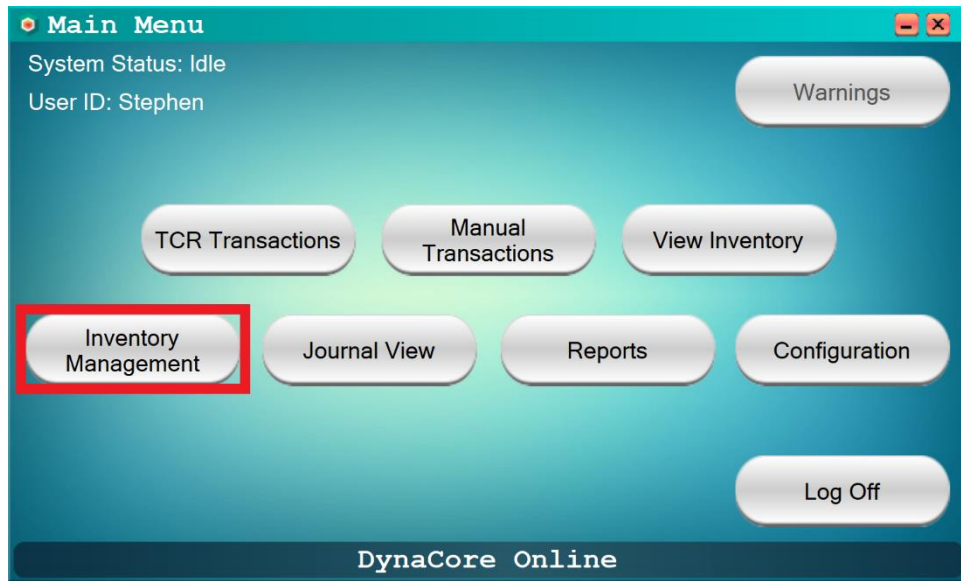
Type	Dispensable	Amount
\$100	0.00	0.00
\$50	150.00	150.00
\$20	220.00	220.00
\$10	210.00	210.00
\$5	75.00	75.00
\$2	0.00	0.00
\$1	716.00	716.00

Coin: \$0.00

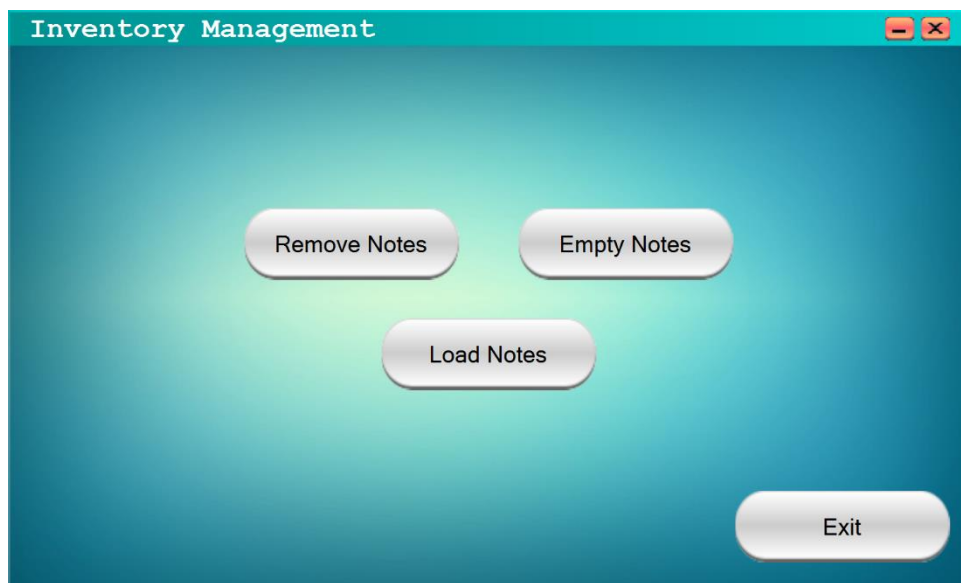


Inventory Management

The Inventory Management screen allows a user with the appropriate permissions to add or remove notes from the TCR without affecting a customer's account or a teller's user totals. To access these functions, click the Inventory Management button on the DynaCore main screen.



From the Inventory Screen you have the following options: Remove Notes, Empty Notes, and Load Notes.





Remove Notes

The Remove Notes screen allows you to remove a specific amount and mixture of bills from the TCR to make sure the inventory is not too high. They can be removed in predetermined, ready to strap bundles.

Type	Current Qty	Current Amt	Amount	Removed
\$1	717	717.00	0.00	0.00
\$5	15	75.00	0.00	0.00
\$10	21	210.00	0.00	0.00
\$20	7	140.00	0.00	0.00
\$50	3	150.00	0.00	0.00
\$100	0	0.00	0.00	0.00

Use Bundles

Start Exit

Waiting to remove notes...


➤ PARTS OF THE MENU

Type – The Type column is on the left of the Remove Notes screen, and it shows the Denominations available in the TCR. This column also displays a relative fullness indicator next to each denomination. This indicator shows about how full of dispensable bills of each denomination the TCR is.

Current Quantity – The Current Quantity column shows how many dispensable bills of each denomination are stored in the TCR.

Current Amount – The Current Amount column shows the total value of dispensable bills of each denomination stored in the TCR.



Amount/Quantity – The Amount/Quantity column lets you denominate the withdrawal amount. You can use the  icon to switch this column between showing total value (Amount) or bill counts (Quantity). If the column is set to Amount, type into the fields in this column the value of each denomination you want the TCR to give you as part of the withdrawal. If the column is set to Quantity, type in the number of each type of bill you want.

Removed – The last column is Removed, and it lists the amount of money that has been removed from the TCR during the current transaction.

Use Bundles – The Use Bundles option causes cash removed to come out in predetermined amounts. For example, if you have your \$1s bundle set to \$100 and you remove \$500 notes the first \$100 will dispense and wait for you to collect it from the exit before dispensing the next \$100. Use this option when you want to strap notes immediately after they are dispensed.



How to Remove Notes

Click in the Amount/Quantity column and type in how much you want to remove of each denomination, as shown below. Make sure you have any options such as Use Bundles or Use Collection Box checked if you want to use them. When everything is ready click the Start button and the notes will begin coming out of the TCR.

Type	Current Qty	Current Amt	Amount	Removed
\$1	717	717.00	500.00	0.00
\$5	15	75.00	50.00	0.00
\$10	21	210.00	100.00	0.00
\$20	7	140.00	0.00	0.00
\$50	3	150.00	0.00	0.00
\$100	0	0.00	0.00	0.00

Use Bundles

Start Exit

Waiting to remove notes

If you are using Bundles, you will have to attend to the machine as it dispenses the bills to remove them and keep it processing.



Empty Notes

The Empty Notes screen allows you to quickly remove one or more denominations from the TCR at once.

Empty Notes					
RSM	Current Qty	Current Amt	Empty	Removed Qty	Removed Amt
1 \$1	361	361.00	<input type="checkbox"/>	0	0.00
2 \$1	356	356.00	<input type="checkbox"/>	0	0.00
3 \$5	15	75.00	<input type="checkbox"/>	0	0.00
4 \$10	21	210.00	<input type="checkbox"/>	0	0.00
5 \$20	4	80.00	<input type="checkbox"/>	0	0.00
6 \$20	3	60.00	<input type="checkbox"/>	0	0.00
7 \$50	3	150.00	<input type="checkbox"/>	0	0.00
8 \$100	0	0.00	<input type="checkbox"/>	0	0.00

Empty All Start Exit

Select modules to empty

➤ PARTS OF THE MENU

RSM – The RSM (Rolled Storage Module) column is on the left of the Empty Notes screen, and it shows the denominations available in each storage module of the TCR. This column also displays a relative fullness indicator next to each denomination. This indicator shows about how full of dispensable bills each storage module in the TCR is.

Current Qty – The Current Qty column shows how many dispensable bills of each denomination are in the TCR.

Current Amt – The Current Amt column shows the total value of notes of each denomination in the TCR.



Empty – The Empty column allows you to select individual cassettes to be emptied or you can use the Empty All button to select all cassettes.

Removed Qty – The Removed Qty column shows the number of notes that have been removed from the TCR.

Removed Amt – The Removed Amt column shows the total value of bills that have been removed from the TCR.



How to Empty Notes

To completely empty a cassette of all the notes in it, click the checkbox in the Empty column for that cassette. Do this for each cassette you wish to empty. Or, if you want to completely empty the TCR, click the Empty All button.

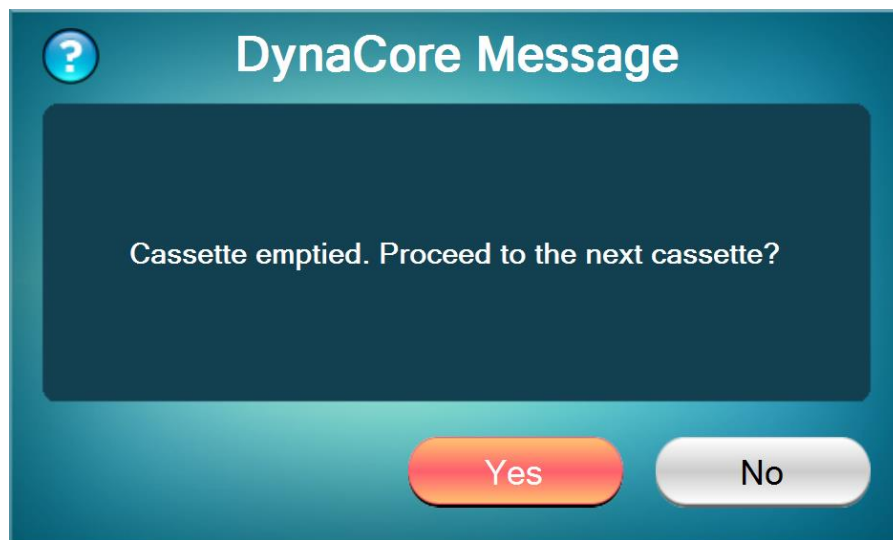
Once you have selected all the cassettes you want to empty click the Start button to begin the emptying process.

RSM	Current Qty	Current Amt	Empty	Removed Qty	Removed Amt
1 \$1	361	361.00	<input type="checkbox"/>	0	0.00
2 \$1	356	356.00	<input checked="" type="checkbox"/>	0	0.00
3 \$5	15	75.00	<input type="checkbox"/>	0	0.00
4 \$10	21	210.00	<input checked="" type="checkbox"/>	0	0.00
5 \$20	4	80.00	<input checked="" type="checkbox"/>	0	0.00
6 \$20	3	60.00	<input checked="" type="checkbox"/>	0	0.00
7 \$50	3	150.00	<input checked="" type="checkbox"/>	0	0.00
8 \$100	0	0.00	<input type="checkbox"/>	0	0.00

Buttons: Empty All, Start, Exit

Select modules to empty..

After a cassette is emptied, if there are any more you selected that still need to be emptied, you will be given a prompt asking whether to begin emptying the next cassette. Clicking No here will cause the TCR to stop emptying the remaining cassettes.



Click **Yes** to move onto the next cassette to be emptied. Once all the desired cassettes have been emptied you can Exit the Empty Notes screen.



Load Notes

You can use the Load Notes screen to add notes to the TCR without affecting a teller's daily User Totals. This allows a manager to add more inventory to the TCR without affecting how any tellers balance at the end of the day.

Type	Starting Total	Deposited	Ending Total
\$100	14,000.00	0.00	14,000.00
\$50	9,600.00	0.00	9,600.00
\$20	2,800.00	0.00	2,800.00
\$10	2,670.00	0.00	2,670.00
\$5	820.00	0.00	820.00
\$2	0.00	0.00	0.00
\$1	189.00	0.00	189.00
Total:	30,079.00	0.00	30,079.00

Start
Reverse
Coin
Quit

Waiting to load notes

➤ PARTS OF THE MENU

Type – The Type column is on the left of the Load Notes screen, and it shows the Denominations held in the TCR. This column also displays a Relative Fullness Indicator next to each denomination. This indicator shows about how full of dispensable bills of each denomination the TCR is.

Starting Total – The Starting Total column shows the dollar value of each denomination stored in the TCR before anything is loaded into the Machine.

Deposited – The Deposited column shows how much of each denomination you have loaded into the TCR as part of this transaction.



Ending Total – The Ending Total column shows how much of each denomination will be in the TCR once you have finished loading notes.

Start – The Start button will begin the process of loading notes into the TCR from the hopper on top of the machine.

Reverse – The Reverse button is only functional when there are notes stored in the TCR as part of a load. When you click the button the TCR will dispense all notes it has taken in as part of that load.

NOTE: You will not be able to reverse the transaction if there is an error during a load.

Coin – The Coin button allows you to add or remove coin inventory to DynaCore.



How to Load Notes

When you click the Start button you will be prompted by a message at the bottom of the screen to load notes onto the hopper on top of the TCR.



Once you place the notes onto the hopper the TCR will immediately begin pulling them into the machine. They do not need to be in any particular order or orientation, the TCR will sort, count, and store the notes according to their respective denominations regardless of how they are mixed.

When the TCR finishes taking in notes you will be able to see what it counted in the Deposit column as shown below.

The screenshot shows the 'Load Notes' interface. It features a table with four columns: Denom, Starting Total, Deposit, and Ending Total. The Deposit column is highlighted with a red box. Below the table are buttons for 'Coin', 'Start', 'Reverse', and 'Accept'. The 'Accept' button is also highlighted with a red box. At the bottom of the interface is a message: 'Add More Notes, Accept, Or Reverse'.

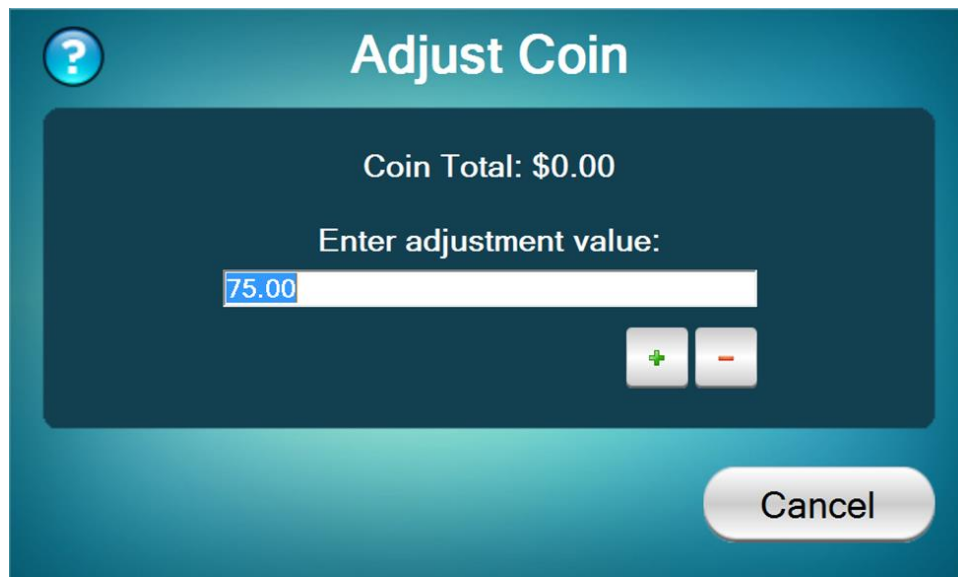
Denom	Starting Total	Deposit	Ending Total
\$100	14,000.00	0.00	14,000.00
\$50	9,550.00	0.00	9,550.00
\$20	2,800.00	0.00	2,800.00
\$10	2,520.00	0.00	2,520.00
\$5	820.00	0.00	820.00
\$2	0.00	0.00	0.00
\$1	130.00	50.00	180.00
Total:	29,820.00	50.00	29,870.00



From here you can add more notes to the hopper, and they will also be loaded into the TCR. If the amount shown in the Deposit column is incorrect you can click the Reverse button to remove all the notes you just loaded. Or, if the amount shown is correct and you are done loading the TCR, click the Accept button to finish the transaction.



How to Load Coin

If you are using a coin machine in conjunction with your TCR you will need to tell DynaCore how much inventory is in the coin machine. To do this, click the Coin button on the Load Notes screen to open the screen shown below.

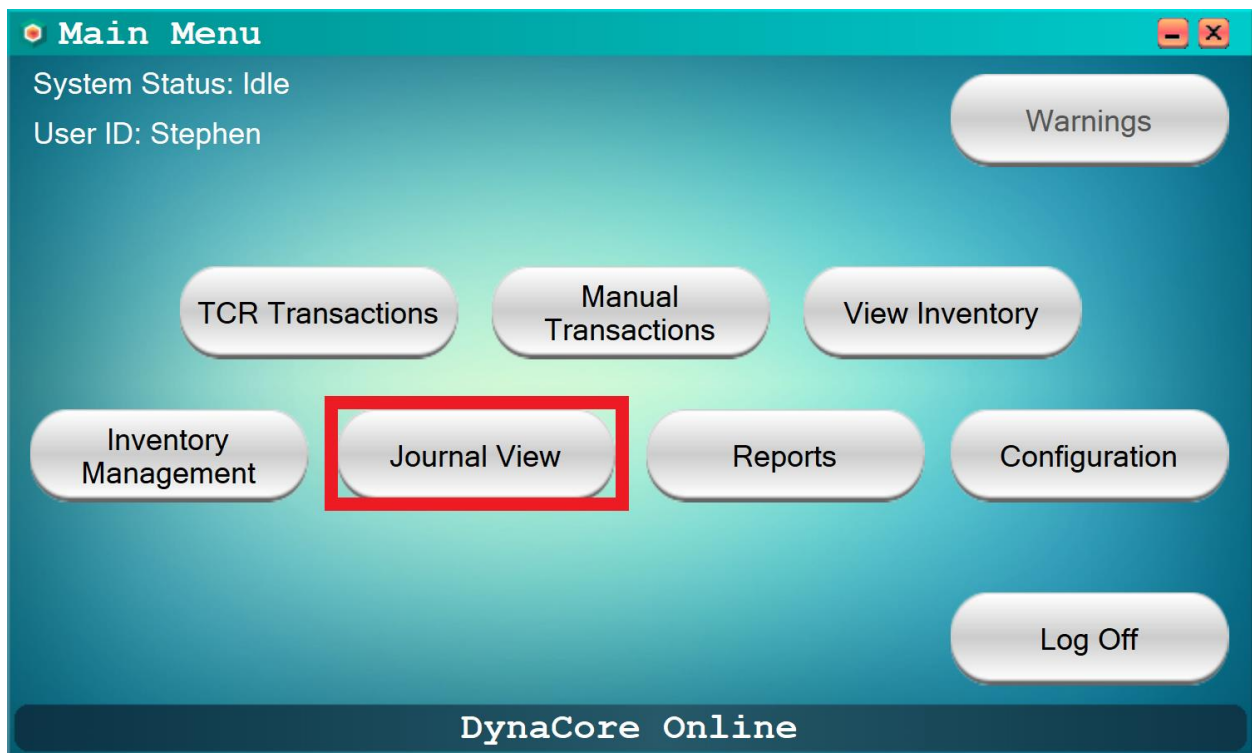
A screenshot of a mobile application dialog box titled "Adjust Coin". The dialog has a teal background. At the top left is a circular icon with a white question mark. The title "Adjust Coin" is centered at the top in white. Below the title, the text "Coin Total: \$0.00" is displayed. Underneath that is the prompt "Enter adjustment value:". A white text input field contains the value "75.00". To the right of the input field are two square buttons: one with a green plus sign and one with a red minus sign. At the bottom right of the dialog is a rounded rectangular button labeled "Cancel".

To add or subtract coin, type the desired amount in the available field (where \$75 is in the above example) and use the  button to add or the  button to subtract that amount from the available coin inventory. DynaCore does not discriminate coin denominations so you will need to add or subtract amounts as a single lump sum.



Journal View

The Journal View is available from the DynaCore base screen and allows you to see a detailed log of everything that has occurred with DynaCore including, but not limited to, users logging on/off, all transactions, configuration setting changes, and reports that have been run. This information is available for four months before being removed from memory.

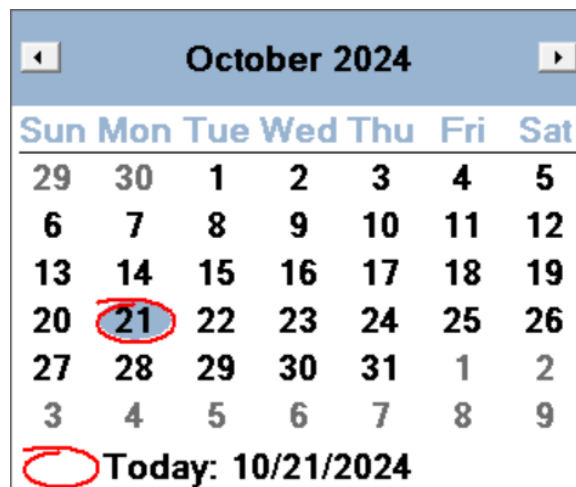




In the Journal View screen there is a large text box that displays in chronological order everything that happened with DynaCore on a given day. Approximately the last 90 days of activity are available to view in the Journal. The day you are looking at is displayed across the bottom of the screen. You can scroll through the displayed activity with the bar on the side of the text box.



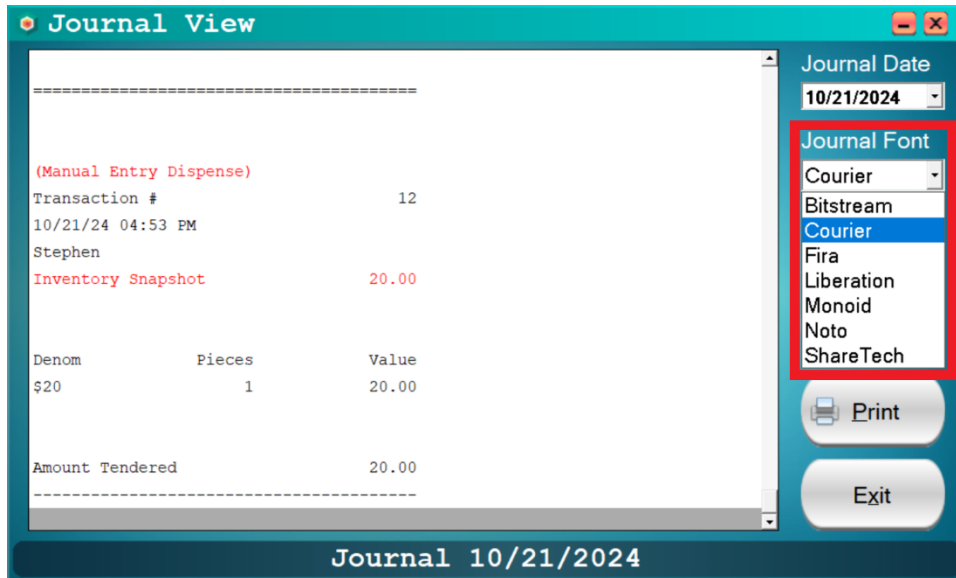
There is a box labeled Journal Date in the top right corner, highlighted in the above example in red. When you click on this box it opens a calendar that you can use to set what day you want to look at. If you want to scroll to a different month, use the arrows on either side of the month and year shown at the top of the calendar.



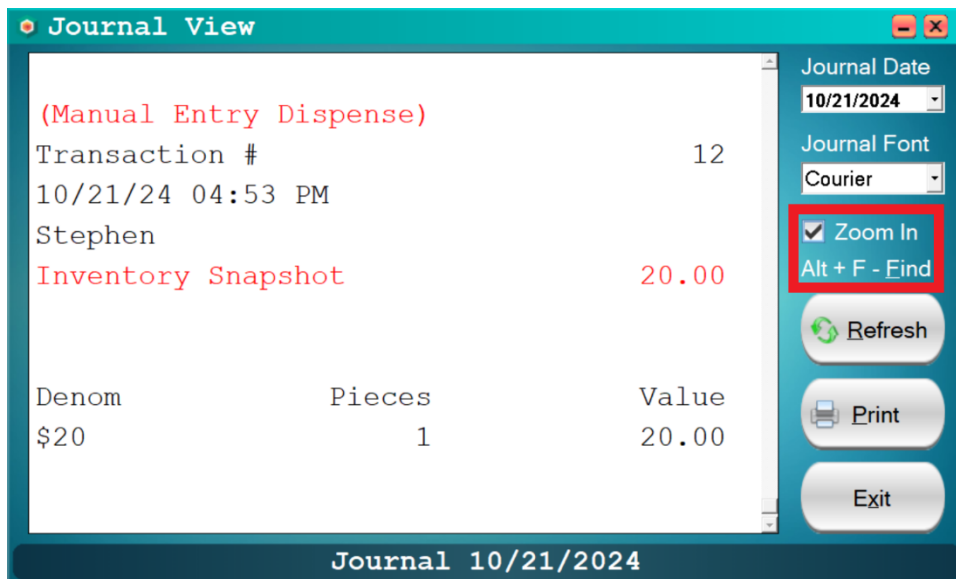
To change the day shown simply click on the day you wish to see and then click the Refresh button on the right side of the screen.



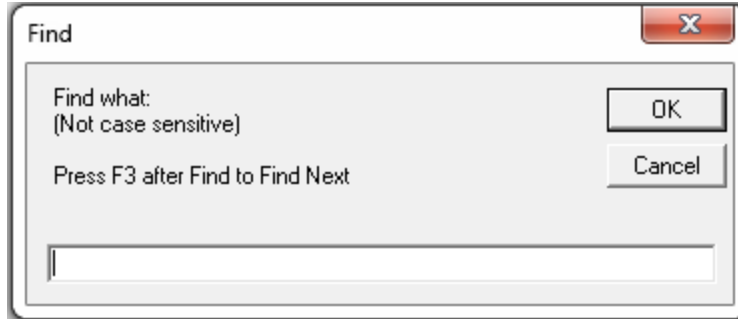
Additionally, you can change the font for the Journal View, the top and bottom banners in on the DynaCore Console software, as well as the various reports by selecting from those listed on the right side of the Journal View screen, as shown below.



If the text in the Journal View is too small, you can use the Zoom In checkbox to make it larger and easier to read. However, this will result in less text being onscreen at one time, possibly making it so you must scroll to see a single transaction in full. This Zoom In option also controls whether the text in the Reports menu will be zoomed in or out.



If you right-click in the white area of the journal it will open the search box shown below.



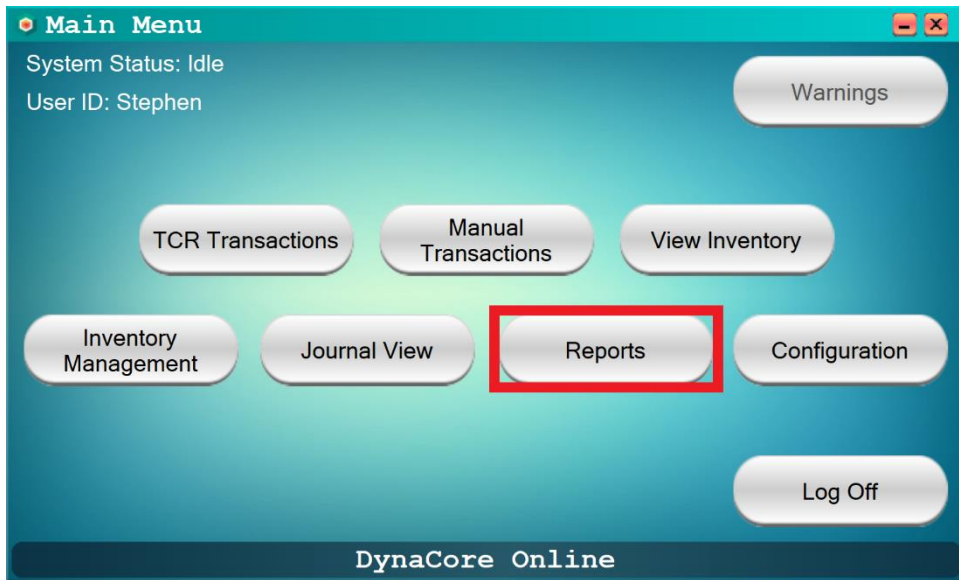
Type in your search term, click OK, and the Journal will scroll to and highlight the earliest occurrence of that term. If you hit F3 on your keyboard it will take you to the next occurrence of that term in the journal for that day. After you reach the last occurrence of your search term, pressing F3 again will result in a pop-up message informing you that it could not find what you were searching for. The search function will always start at the top of the journal and scan down to find your search term, there is no option for scanning up through the journal.



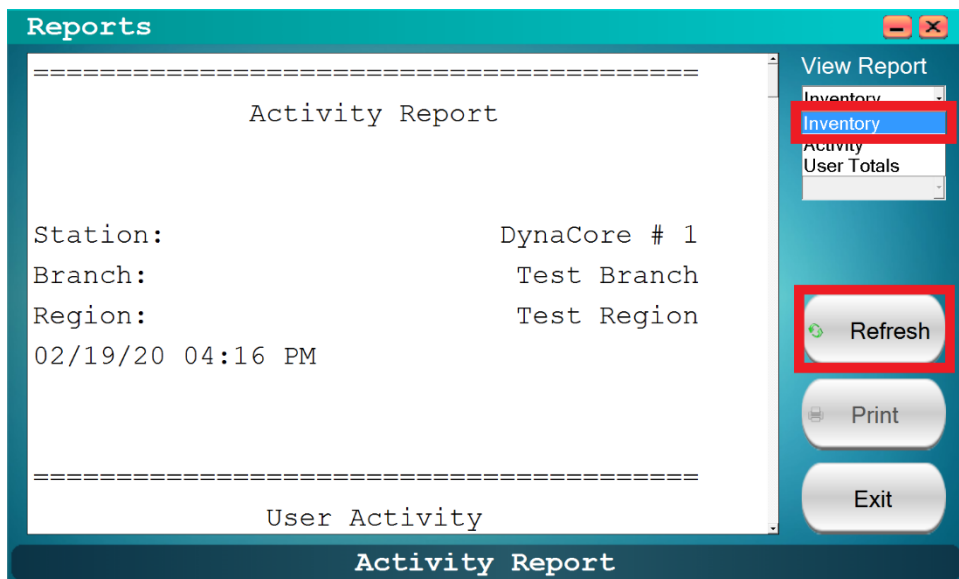
Reports

The DynaCore console contains three kinds of reports. The Activity reports are comprehensive reports of all DynaCore activities. The Inventory report gives a breakdown of the TCR's inventory. The User Totals will display all activity associated with a given user.

To view these reports, select Reports from the main menu.



Once you are in the Reports menu you can change what report is displayed by opening the drop-down menu in the top right corner, selecting the report you wish to see, then clicking the Refresh button, as shown below.





Inventory

Once you are in the Reports menu you will see that DynaCore defaults to showing you the Inventory Report. If you wish to print out a copy of the Inventory Report just click the "Print" button on the right side of the screen and select the printer you want to send the document to. Note that the Inventory Report is also listed as part of the Activity Report.

Reports

View Report
Inventory

User ID

Refresh

Print

Exit

Inventory

Station: 3030
Branch: Test Branch
Region: Test Region

Denom	Pieces	Value
\$100	0	.00
\$50	0	.00
\$20	0	.00
\$10	0	.00
\$5	0	.00

Inventory Report



Sample Inventory Report

DynaCore - Inventory Report (Station ID: 3030)

```

=====
                          Inventory
-----
Station:                               3030
Branch:                               Branch ID
Region:                               Region ID
Denom      Pieces      Value
$100             0         .00
$50              3       150.00
$20             11       220.00
$10            21       210.00
$5             15        75.00
$2              0         .00
$1            715       715.00

Starting Inventory      1369.00
Net Adjustments        -1.00
Total Inventory        1370.00

RSM 1 $1             361       361.00
RSM 2 $1             354       354.00
RSM 3 $5              15         75.00
RSM 4 $10            21       210.00
RSM 5 $20            11       220.00
RSM 6 $20              0         .00
RSM 7 $50             3       150.00
RSM 8 $100            0         .00

$5 Notes Low
$10 Notes Low
$20 Notes Low
$50 Notes Low
$100 Notes Empty

RSM 6 Empty
RSM 8 Empty
=====

```

The first section of the inventory report gives a detailed account of the notes stored in the TCR. It will tell you what the inventory in the TCR was at the beginning of the day, called "Starting Inventory", as well as what net changes have occurred in the inventory over the course of the day, called "Net Adjustments", and what the current Total Inventory is.

The next part of the Inventory Report tells what denomination, and how much of it, is stored in each storage module, referred to here as RSMs. Each RSM can hold only one denomination and multiple RSMs can hold the same denomination.

The last part of the Inventory Report shows any status warnings for specific denominations or storage modules in red at the bottom of the report.



Activity

The Activity Report is the most detailed reporting option available in DynaCore. It provides a detailed account of everything that has happened with the TCR since the last time the activity was cleared for a new business day, as well as grand total dispensed/deposited information for each teller and shows current inventory and dispensed totals for all denominations and coin.

The screenshot shows a software window titled "Reports" with a teal header. Inside the window, a text area displays the following information:

```
=====
                          Activity Report

Station:                    3030
Branch:                     Test Branch
Region:                     Test Region
05/07/21 04:03 PM

=====
                          User Activity
=====
```

On the right side of the window, there is a control panel with the following elements:

- A "View Report" dropdown menu currently set to "Activity".
- A "User ID" input field.
- A "Refresh" button with a circular arrow icon.
- A "Print" button with a printer icon.
- An "Exit" button.

At the bottom of the window, a dark teal bar contains the text "Activity Report".



Sample Activity Report

```
=====
                        Activity Report
=====

Station:                               3030
Branch:                               Branch ID
Region:                               Region ID
06/27/20 03:54 PM

=====
                        User Activity
=====

Josh
# of Deposits                          0
# of Withdrawals                        1

Deposit Total                           .00

Denom      Pieces      Value
$20         6          120.00
$10         3           30.00

Withdrawal Total                         150.00

-----
Net Total                                -150.00
-----

Stephen
# of Deposits                          2
# of Withdrawals                        1

Denom      Pieces      Value
$20         2           40.00
$10         1           10.00

Deposit Total                           50.00

Denom      Pieces      Value
$20         4           80.00
$10         2           20.00

Withdrawal Total                         100.00

-----
Net Total                                -50.00
=====

Grand Total Deposited
=====
```

The first section of the Activity Report is User Activity and is like the User Totals Report. It gives a brief account of the deposits and withdrawals done by each teller. Unlike the User Totals report, rather than showing a single teller's activity this section of the Activity report has an entry for each teller that has activity on file.

You can see here that after the Net Total for the prior user we start a new section for another teller. Each teller with activity on file will be shown this way



Machine Deposits

Denom	Pieces	Value
\$100	0	.00
\$50	0	.00
\$20	2	40.00
\$10	1	10.00
\$5	0	.00
\$2	0	.00
\$1	0	.00

Other Cash Deposits

\$100	0	.00
\$50	0	.00
\$20	0	.00
\$10	0	.00
\$5	0	.00
\$2	0	.00
\$1	0	.00

Other Coin		.00
Other Cash Deposited		.00
Machine Total		50.00
Total Deposited		50.00
# of Deposits		2

Grand Total Dispersed

Denom	Pieces	Value
\$100	0	.00
\$50	0	.00
\$20	10	200.00
\$10	5	50.00
\$5	0	.00
\$1	0	.00
Total Dispersed		250.00
# of Withdrawals		2

Net Cash Usage

Denom	Pieces	Value
\$100	0	.00
\$50	0	.00

The next section of the Activity Report is Grand Total Deposited. Whereas the previous section gave individual totals for each teller, this section shows how much all the tellers together have deposited into the TCR.

The Other Cash Deposits section of the Activity Report lists any totals that were part of a deposit but were not put into the TCR. This includes anything listed in the Verified or Drawer columns in the deposit screen.

After Grand Total Deposited is the Grand Total Dispersed section. This section shows how much all the tellers together have withdrawn from the TCR.

The Net Cash Usage section shows the net change in inventory for each denomination in the TCR. For Example, if you deposit two \$10s and withdraw four you will see a net negative of \$20, as shown in the example at the top of the next page.



\$20	8	-160.00
\$10	4	-40.00
\$5	0	.00
\$2	0	.00
\$1	0	.00

Net Total -200.00

Inventory

Denom	Pieces	Value
\$100	0	.00
\$50	3	150.00
\$20	3	60.00
\$10	17	170.00
\$5	15	75.00
\$2	0	.00
\$1	715	715.00

Starting Inventory 1369.00
 Net Adjustments -1.00
 Total Inventory 1170.00

RSM 1 \$1	361	361.00
RSM 2 \$1	354	354.00
RSM 3 \$5	15	75.00
RSM 4 \$10	17	170.00
RSM 5 \$20	1	20.00
RSM 6 \$20	2	40.00
RSM 7 \$50	3	150.00
RSM 8 \$100	0	.00

\$5 Notes Low
 \$10 Notes Low
 \$20 Notes Low
 \$50 Notes Low
 \$100 Notes Empty

RSM 8 Empty

The Inventory section of the Activity Report is identical to the Inventory Report covered earlier in this manual. It begins with a detailed account of the notes stored in the TCR. It will also tell you what the inventory in the TCR was at the beginning of the day, called "Starting Inventory", as well as what net changes have occurred in the inventory over the course of the day, called "Net Adjustments" and what the current Total Inventory is.

The next part of the report tells what denomination, and how much of it, is stored in each storage module, referred to here as RSMs. Each RSM can hold only one denomination and multiple RSMs can hold the same denomination.

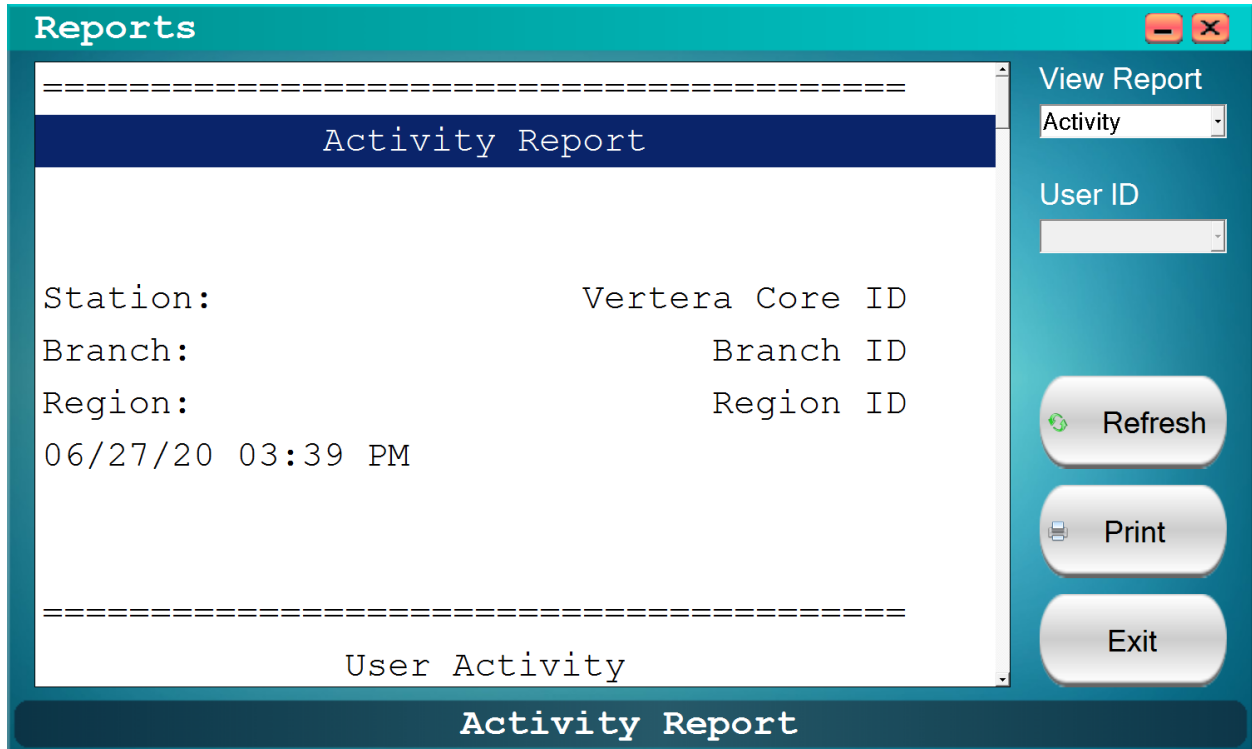
The last part of the report shows any status warnings for specific denominations or storage modules in red.



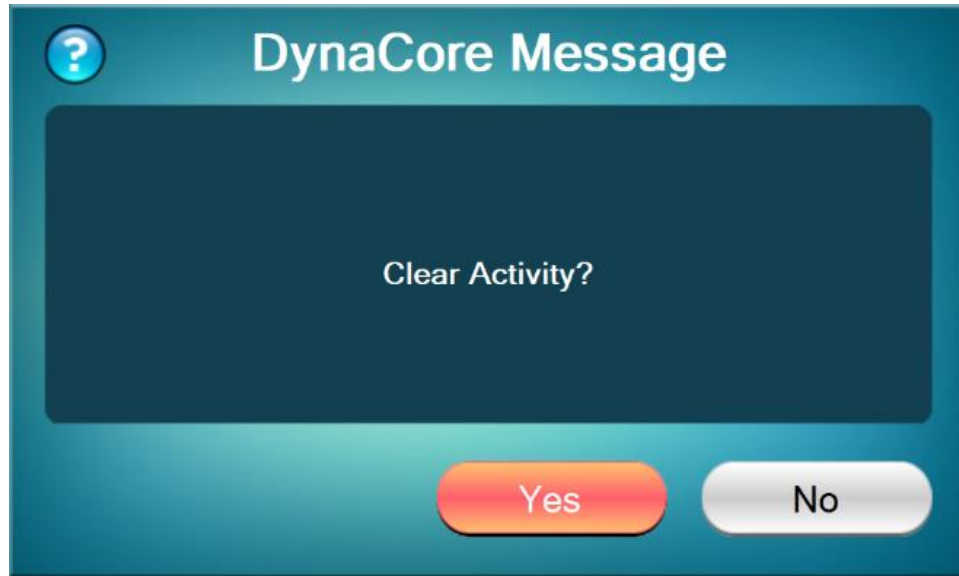
Clearing Activity

Clearing activity is the process for ending and starting a new day's business. Clearing Activity clears all User Totals for the day (unless teller batching is being used). To avoid issues with teller/machine balancing you will need to clear the activity saved in DynaCore daily and only when certain you are ready to balance the recycler.

To clear activity first click the Print button as shown below.

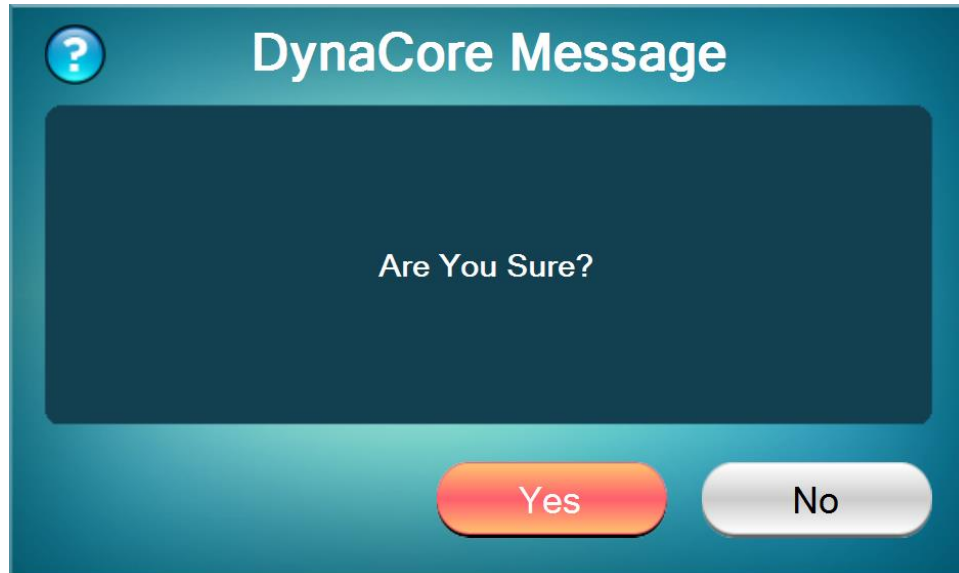


Canceling out of the printer selection screen will allow you to clear activity without printing a physical or digital copy of the activity report. After the Activity Report is printed or canceled from the printer selection window the option to Clear Activity will be displayed.



If you click No on this screen, you will be returned to the Reports menu without clearing the activity. Do this if you want to print a copy of the Activity Report but do not intend to balance the Tellers/TCR immediately after.

However, if you click Yes on the above screen, you will be given a second prompt verifying that you want to clear the saved activity.



Clicking Yes on this screen will clear all activity saved in DynaCore including the User Totals for individual tellers (unless teller batching is enabled) and return you to the Reports screen. Typically, you will only want to do this at the end of the day **AFTER** all tellers using DynaCore have balanced, **NEVER** before they finish balancing.



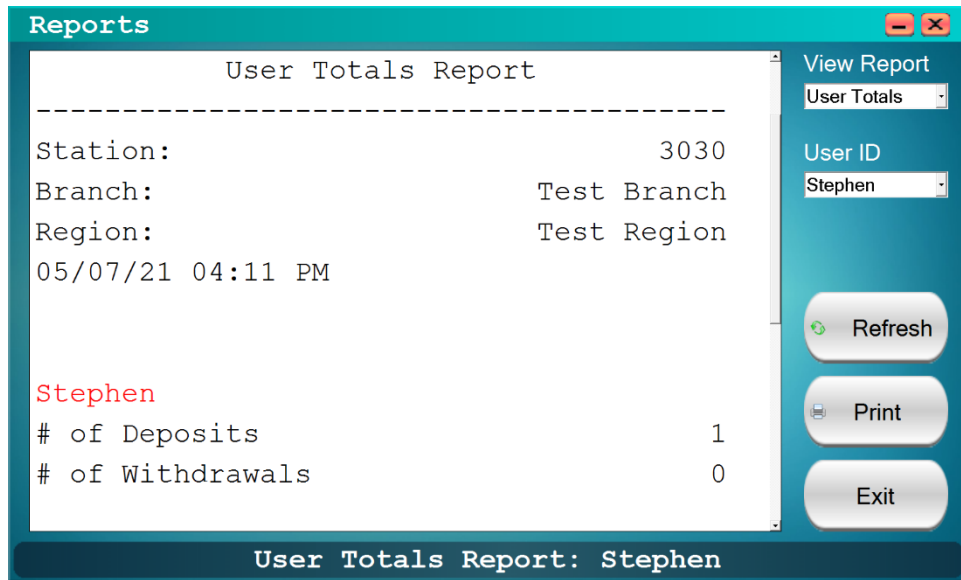
Here are a few things to note about clearing the **Activity Report**:

- If no tellers ran transactions the report will print “No Teller Transactions” where the teller activity section would normally be printed.
- “Teller Batching” is a feature which gets enabled or disabled at system installation time.
- *If Teller Batching is not enabled*, clearing the activity clears the individual teller activity log, the machine dispensed totals, and the transaction history log. Since teller totals get cleared, this serves to clear the accumulation toward the teller day limits too (a new "day" begins).
- *If Teller Batching is enabled*, clearing the activity clears the individual teller grand total activity log, and the machine dispensed totals. However, tellers have their own individual batch level activity record, which can be accessed through the User Totals report. Teller batch records are cleared separately from the Activity Report. If you clear the Activity Report without clearing the User Totals for each teller with batch activity, you will be warned that you have “Open Batches” in the DynaLog Viewer program at the bottom of the Activity Report.
- If a teller who currently has totals is to be deleted from the system, management will need to print this report and clear the activity totals and the batch level records for that teller before the deletion can be done. Inventory totals do not need to be cleared to do teller administration functions.

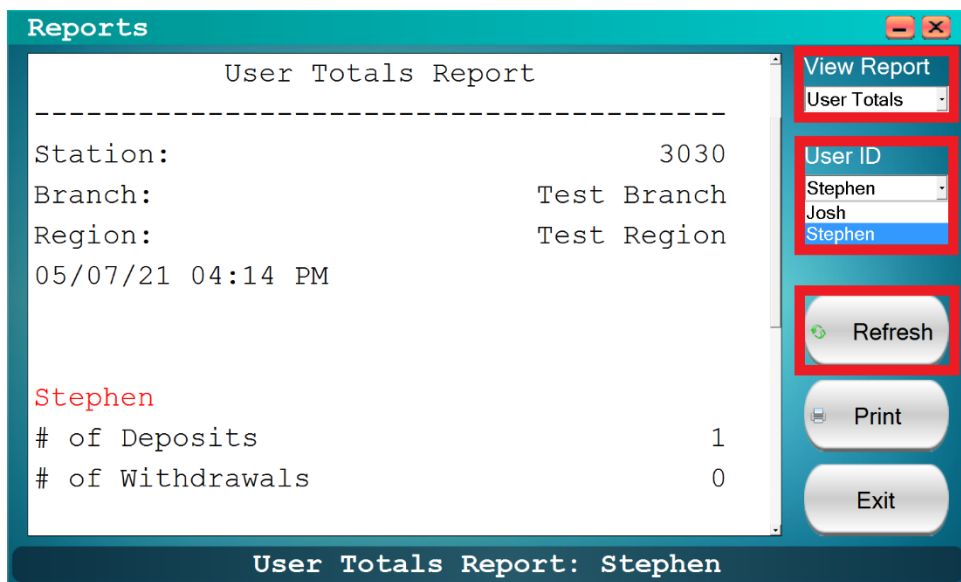


User Totals

The User Totals Report gives a detailed account of every cent a given teller has taken in or out of the TCR. It is also where tellers will need to look to find out what ticket they need to run to balance at the end of the day.



To see the User Totals for a specific teller first set the View Report option in the top right to User Totals and click Refresh, then click on the User ID drop-down menu and select the user you want to see, then click refresh again. The picture below highlights the areas you will need.





Sample User Totals Report

User Totals Report		
Station:		123
Branch:	Test Branch	
Region:	Test Region	
02/18/20 05:55 PM		
Ray		
# of Deposits		2
# of Withdrawals		3
Denom	Pieces	Value
\$20	2	40.00
\$10	2	20.00
\$5	2	10.00
Deposit Total		70.00
Denom	Pieces	Value
\$20	14	280.00
\$10	8	80.00
\$5	5	25.00
\$1	5	5.00
Withdrawal Total		390.00
Buy		320.00

The first part of the User Totals report contains the identifying information for the DynaCore controller, as well as the date and time when the report was generated and the User ID of the teller the report is on.

Next, it shows the total number of each type of transaction performed by the teller.

The next section gives you a detailed account of how much of each denomination the user has deposited into the TCR, as well as the total amount deposited.

Following that, there is a section that gives you the same break down for money withdrawn from the TCR.

The last part of the User totals report shows you in red what ticket the user needs to run to balance their drawer. In the example here, the user needs to run a ticket saying they are buying \$320 from the TCR to balance for the end of the day.



Teller Batching

Teller Batching is an optional feature that is turned on/off during system installation. It allows individual tellers to print and clear their own User Totals multiple times per day, rather than all teller activity being cleared a single time when the Activity Report is printed, and activity is cleared. This feature lets tellers balance their drawers throughout the day rather than just once at the end of the day.

To clear a teller's batch, first open the User Totals Report for the desired teller. Notice that when Teller Batching is enabled the User Totals report will instead be called the "User Batch Report" in the report itself, but it is still listed as User Totals in the View Report drop down menu.

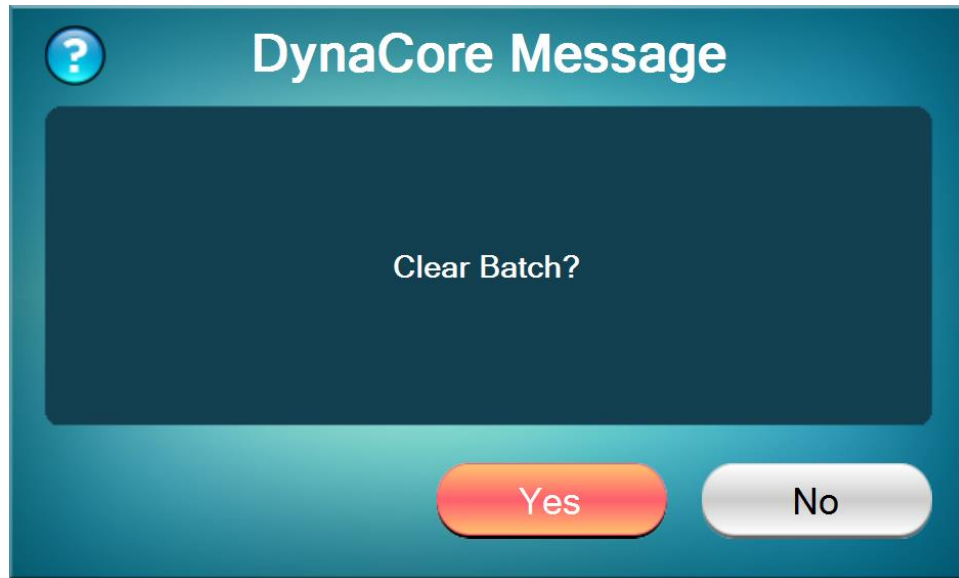
Once the desired teller's User Totals are shown, click the Print button as shown below.

The screenshot shows a software window titled "Reports" with a teal header. The main content area displays a "User Batch Report" with the following text:

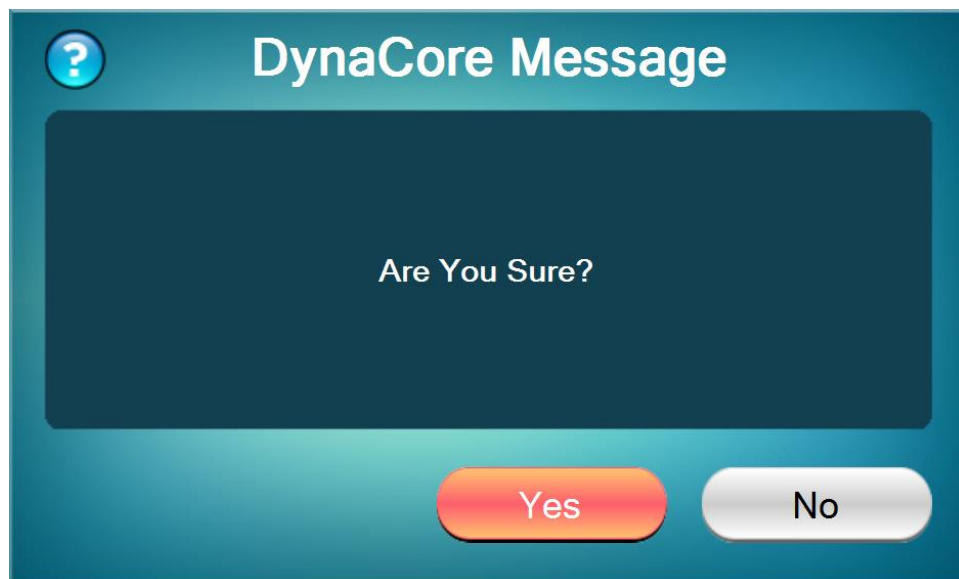
```
-----  
User Batch Report  
-----  
Station: 3030  
Branch: Test Branch  
Region: Test Region  
05/07/21 04:23 PM  
  
Stephen  
# of Deposits 1  
# of Withdrawals 0
```

On the right side of the window, there is a "View Report" section with a dropdown menu set to "User Totals" and another dropdown menu set to "Stephen". Below these are three buttons: "Refresh", "Print", and "Exit". At the bottom of the window, a dark teal bar displays "User Totals Report: Stephen".

You will then be given a prompt asking if you want to clear the teller's batch.



If you click No on this screen, you will be returned to the Reports menu without clearing the teller's batch activity. However, if you click Yes on the above screen, you will be given a second prompt verifying that you want to clear the teller's batch activity.



Clicking Yes on this screen will clear the teller's batch activity saved in DynaCore and set their User Totals to zero.

If you use Teller Batching, you will need to make sure each teller's batch activity is cleared at the end of each day when you clear the Activity Report. Failing to do so can result in balancing issues on the following day.



Include Manager Totals

Include Manager Totals is an optional feature that can be enabled during the initial system setup. It will combine all a user's transactions, including those performed in the Inventory Management menu, as part of the teller's User Totals Report. Typically, only deposits and withdrawals are included in this report, but the Include Manager Totals option will include any cash loads or removals performed by the teller when determining their end-of-day balancing totals, as shown below.

```

=====
User Totals Report
-----
Station:                               3030
Branch:                               Test Branch
Region:                               Test Region
10/04/24 10:36 AM
By:                                    Stephen

Stephen
# of Deposits                          3
# of Withdrawals                        2
# of Loads                              3
# of Removals                           3

Denom      Pieces      Value
$100       2           200.00
$20        15          300.00
$10        10          100.00
$5         18          90.00
$1         10          10.00

Deposit Total                          700.00

Denom      Pieces      Value
$100       1           100.00
$20        10          200.00
$10        10          100.00
$5         18          90.00
Withdrawal Total                        500.00
Denom      Pieces      Value
$100       2           200.00
$20        15          300.00
$10        15          150.00
$5         29          145.00
$1         15          15.00

Total Loaded                            810.00

Denom      Pieces      Value
$100       2           200.00
$20        15          300.00
$10        10          100.00
$5         19          95.00
$1         10          10.00

Total Removed                          705.00
Net Adjustments                        105.00
-----
Sell                                    305.00
=====

```

The first part of the User Totals report contains the identifying information for the DynaCore controller, as well as the date and time when the report was generated and the User ID of the teller the report is on.

Next, it shows the total number of each type of transaction performed by the teller.

The next section gives you a detailed account of how much of each denomination the user has deposited into the TCR, as well as the total amount deposited. Following that is a similar breakdown for how much the teller has withdrawn from the TCR, as well as sections for the cash loaded and removed through the inventory management menu.

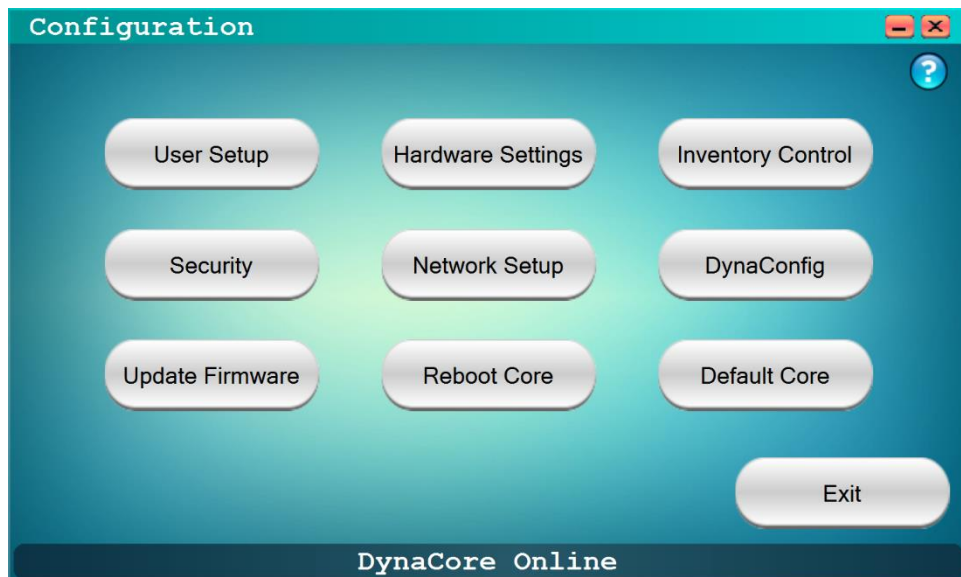
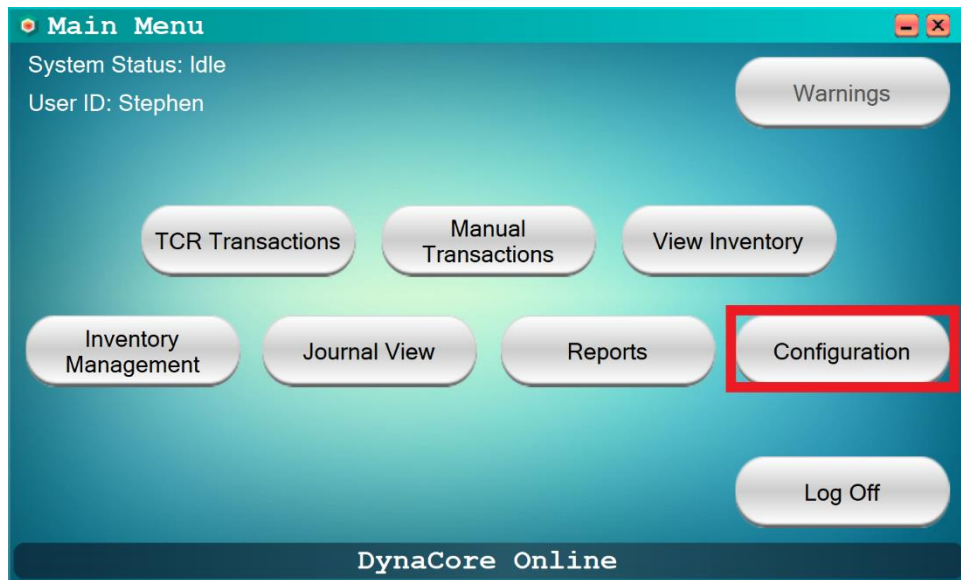
The last part of the User totals report shows you in red what ticket the user needs to run to balance their drawer. This is calculated as the net total of all cash in and cash out transactions shown on the User Totals Report. In the example here, the user needs to do a cash movement in their teller core showing them buying \$305 from





DynaCore Configuration Settings

The Configuration menu is available from the DynaCore home screen. From this screen you can navigate to various pages which control DynaCore's functionality.





PARTS OF THE MENU

Group/User Permissions – To access certain pages from the configuration menu you must be logged in as a user that is a member of a group with those permissions. Below is a list of each page available from the Configuration menu and what permissions are necessary to access them.

User Setup (Must have either User or Group Management Permission) – This menu allows you to create groups, give them rights in DynaCore, create users, and make them members of groups so they will have the corresponding rights.

Hardware Settings (Must have Hardware Setup Permission) – These settings allow you to set the details of the TCR and various peripherals the DynaCore appliance will connect to.

Inventory Control (Must have Inventory Control Permission) – This menu allows you to set the parameters for how money is dispensed from the TCR, as well as setting warnings for when the inventory of a denomination is too high or low.

Security (Must have Security Setup Permission) – This menu lets you set hours of operation for DynaCore and the details for how the Duress mode functions.

Network Setup (Must have Network Setup Permission) – This menu lets you set the IP information for the DynaCore appliance and DynaLog server, as well as the header details for printing reports from DynaLog.

DynaConfig – This option opens a window that allows you to map the various functions of DynaCore onto the different screens of your teller application.

Update Firmware (Must have Update Firmware Permission) – This option allows you to upload new firmware to the DynaCore appliance. You will have to be able to navigate to the desired firmware on your PC. Updating Firmware will erase user totals, but the users, groups, and other settings will remain unchanged.

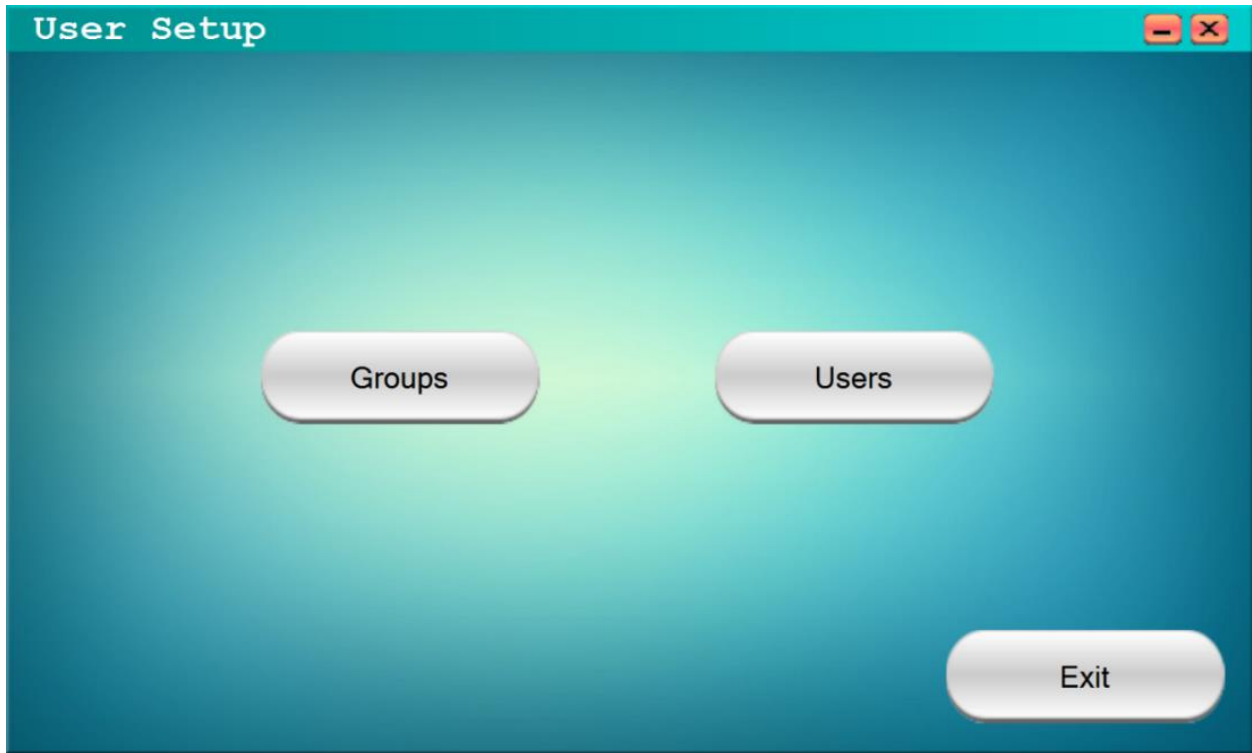
Reboot Core (Must have Reboot System Permission) – Rebooting the system will terminate and reload the operating system on the DynaCore appliance.

Default Core (Must have Default System Permission) – Defaulting the system will erase user totals, coin inventory, and stored transaction history. However, the onboard record of the DynaLog Electronic Journal will not be erased, nor will your users and their groups.



User Setup (Must have either User or Group Management Permission)

The User Setup page of DynaCore Console controls how DynaCore will determine user logon information and permissions for individual users.



➤ User Mode

There are two ways DynaCore can determine user credentials and permissions, Local Users and Active Directory. Which user mode is used is determined at initial system setup, but it can be changed later.

Local Users: When DynaCore Console's user mode is set to Local Users it will take the information manually set in the Users and Groups pages available from the User Setup page. This option will be disabled when User Mode is set to Active Directory.

Active Directory: When DynaCore Console is set for Active Directory, it will pull user and group information from Windows' Active Directory feature and match it to the information set in the Groups page available from the User Setup page. DynaCore will match the groups listed in the AD to the permissions set in the DynaCore Groups page to determine what individual users are permitted to do in DynaCore. The Active Directory domain location must be set in the DynaCore.ini file.



Group Settings

The Group Settings menu allows you to set what permissions each security group has.

Dual Control	Function	Teller	Manager	Admin	Group 4	Group 5
<input type="checkbox"/>	ONLINE WITHDRAWAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	ONLINE DEPOSIT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	MANUAL WITHDRAWAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	MANUAL DEPOSIT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	VIEW OWN REPORTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	VIEW ALL REPORTS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	CLEAR ACTIVITY REPORT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	LOAD NOTES / ADJUST COIN	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Buttons: Save, Print, Cancel

Group Names – The group names, listed above as “Group 1”, “Group 2” etc., can all be changed by double clicking on them to bring up this window:

Edit Group Name

Enter a new name for group 3:

Buttons: Save, Cancel



The Group Names can be set to whatever you want, with a maximum of 64 characters apiece. However, longer group names may be cut off due to space limitations in the group names display.

For the permissions set here to work correctly with Active Directory security groups you should give both sets of groups the same names. For example, if you want to use the Active Directory function in DynaCore and you want your tellers to have the permissions set for Group 1 in DynaCore, then you should have your tellers be part of a security group in Active Directory called “Group 1”. DynaCore will see this security group in Active Directory and correspond its members with the permissions set for “Group 1” in DynaCore.

Functions – Beneath each group name is a column of check boxes that intersect with the rows next to each function. If the check box at the intersection of a group’s column and a function’s row is checked, then that group will have permission to perform that function.

Dual Control – The column on the far left of the Group Settings screen determines whether dual control (a second user giving approval by entering their credentials) will be needed to perform a given function in DynaCore. It can be turned on or off for each function listed on this screen.

Group Limits – When you click on a User Group you will open the day limit and transaction limit for that group at the bottom of the page. These limits determine how much money a user can withdraw from the TCR. If a user is part of multiple groups with different day and transaction limits, whatever group has the highest limit will take precedence as the limit for that user.

Day Limit – The day limit determines the maximum amount that can be dispensed by a teller in a single business day. Exceeding this limit will require a user with “Limit Overrides” permission to enter their credentials.

Trans. Limit – The Transaction limit determines the maximum amount that can be dispensed as part of a single transaction. Exceeding this limit will require a user with “Limit Overrides” permission to enter their credentials.



User Management

The User Management screen controls local users only and is available from the User Setup screen. If your DynaCore system is set to use Active Directory this screen will not be available. The field on the left side of the screen titled User Name displays the users that are currently saved in the system. The user currently logged in will be highlighted in pink, the user that is currently selected in the field will be highlighted in dark blue.

The screenshot shows the 'User Management' window with the following elements:

- User ID:** David
- Password:** [masked]
- Confirm:** [masked]
- Clear** button (top left)
- User Name** list: David (highlighted in dark blue), Ethan, Josh, Stephen
- User Groups** list: Teller (highlighted in dark blue), Manager
- Group List** list: Teller (highlighted in dark blue), Manager, Admin, Group 4, Group 5, Group 6
- Navigation:** Green arrow pointing left from Group List to User Groups; Red arrow pointing right from User Groups to Group List.
- Buttons:** Delete, Save, Print, Exit

Adding Users – To add a new local user, click the Clear button at the top left of the screen. This will clear out everything from the User ID, Password, Confirm, and User Groups fields. Start by entering the User ID, this will be used to identify the user at log on and in various reports. Next, fill in the Password and Confirm fields. Be sure that these two fields match identically. Then determine which groups the user will be a member of. Select the group or groups you want them to be part of in the Group List field, then click the green arrow pointing at the User Groups field to add them. Finally, be sure to click Save when you are done with each user before you attempt to add any more or exit.



Editing Users – To edit a local user, select them in the User Name field. This will fill their information into the fields in the center of the screen. From here you can change their password by entering a new one into the Password and Confirm fields. Be sure these fields match. You can also edit what groups they are a member of. To add them to a group, select a group or groups in the Group List field on the right side of the screen then click the green arrow pointing at User Groups to add them as a member of that group. To remove them from a group, select the groups you no longer wish them to be part of in the User Groups field then click the red arrow pointing at the Group List field. When you are done editing a user be sure to click Save before you Exit the User Management screen.

Deleting Users – To delete a local user, select them in the User Name field then click the Delete button in the bottom left of the screen. You will be presented with a prompt asking if you are sure you want to delete that user so that they are not removed by accident. After you have deleted a user, be sure to click Save next to the Delete button before you Exit the User Management screen. You cannot delete users that have active totals on file, any such users will have to have their totals cleared before they can be deleted.

Change Own Password – As previously mentioned, you typically need User Management permission to access the User Management screen explained above. However, giving a group User Management permission allows everyone in that group to access and change every user's credential, posing a potential security issue. There is, however, an option in the Group Settings menu that will allow a user to change their password without causing a security issue. If a user is in a group with Change Own Password permission, then they can access the User Management screen as outlined above, but they will only be allowed to change their own password, not other user's passwords or what groups various users are in.



Hardware Settings (Must have Hardware Setup Permission)

Machine Settings

Machine Type – This section indicates the model of TCR that DynaCore is configured for. This cannot be edited from the DynaCore Console, it is hardcoded into the firmware loaded into the DynaCore Appliance.

IP Address –The “IP Address” entry does not apply to the CIMA 7000 TCR. It is hardcoded to a serial connection.

Port – This section lists the port or ports that DynaCore will try to use when establishing a connection to the TCR. As with the “Machine Type” entry this is hardcoded into the firmware and cannot be edited from the Hardware Settings menu.

Max Dispense Per Pass – This setting determines the maximum amount of bills that can come out of the TCR in a single pass. If a transaction requires more bills than the Max Dispense Per Pass allows, then the TCR will give you bills until the max dispense



number is met, wait for you to remove those bills, and then begin dispensing bills again until the max dispense number is met again until the remainder of the dispense has been fulfilled.

Machine Uses – This setting is irrelevant for a TCR that uses a serial connection to DynaCore, like the CIMA. This setting determines which LAN port on the DynaCore appliance the connection to the TCR will be established on. It can be set to either Primary LAN or Auxiliary LAN. The Primary LAN option should be used when both the DynaCore appliance and the TCR are connected to the local network. The Auxiliary LAN option should be used when there is only one LAN port available that the DynaCore appliance is connected to and there is a LAN connection directly between the appliance and the TCR or the financial institution would like to keep a LAN-linked TCR isolated off their local area network for security reasons.

Discriminator – The “Discriminator” option allows you to set what type of bill discriminator, if any, is being used with DynaCore. (If the desired bill discriminator is not listed, please contact your DynaCore vendor regarding implementation).

Note: The DynaCore appliance will need to be power cycled after updating the setting change to detect the connected device.

Coin Sorter – The “Coin Sorter” option allows you to set what type of coin sorter, if any, is being used with DynaCore. (If the desired coin sorter is not listed, please contact your DynaCore vendor regarding implementation).

Note: The DynaCore appliance will need to be power cycled after updating the setting change to detect the connected device.



Printer Settings

Use Printer – This setting determines whether the DynaCore system will be connected to a Bixolon receipt printer. For further questions regarding the Bixolon receipt printer, please contact your DynaCore vendor for more information.

Report Tear Off Lines – This setting determines the number of blank lines after a report in your Electronic Journal records. This will determine how far the paper feeds through the printer after it is done printing so that it can be torn off without losing information.

Transaction Tear Off Lines – This setting determines the number of blank lines after each transaction in your Electronic Journal records. This will determine how far the paper feeds through the printer after it is done printing so that it can be torn off without losing information.

Coin Settings

Coin Dispenser – This setting determines what, if any, coin dispenser can be connected to the DynaCore appliance. It can also be set to track the total amount of coin that the machine requests a teller to dispense from their drawer, or to not track coin at all.

Shared Coin – If you are using a single InstaChange or Telequip Single Cup coin dispenser, you can have two or more tellers use the same coin dispenser. To set this up the coin cable must be plugged into Coin Port 1 and “Shared Coin” must be turned on.



Inventory Control (Must have Inventory Control Permission)

Type	Weight	Mix 1 < 301	Mix 2 < 601	Mix 3 > 601	No Odds	Low	High	Teller Bundle	Manager Bundle
\$100	6	2	0	0	<input type="checkbox"/>	50	2000	100	100
\$50	5	0	2	2	<input checked="" type="checkbox"/>	50	2000	100	100
\$20	1	5	10	10	<input type="checkbox"/>	50	2000	100	100
\$10	2	0	0	0	<input type="checkbox"/>	50	2000	100	100
\$5	3	0	0	0	<input type="checkbox"/>	50	2000	100	100
\$1	4	0	0	0	<input type="checkbox"/>	50	2000	100	100

Mix 1 Max:
Mix 2 Max:

AutoMix Settings

The highlighted section of the picture above contains the Inventory Control settings that collectively make up the AutoMix settings. The AutoMix determines what mixture of bills will be dispensed when a teller performs a dispense without specifying the exact combination of bills they want.

How the AutoMix Works

Mix Weighting - The AutoMix first takes into consideration the “Weighting” of the different denominations. The Weighting determines the order in which bills are picked to fulfill the dispense amount. Here are some examples of denomination weightings:

- A \$20's first weighting has an order of \$20>\$10>\$5>\$1>\$50>\$100.
- Low to High weighting has an order of \$1>\$5>\$10>\$20>\$50>\$100.
- High to Low weighting has an order of \$100>\$50>\$20>\$10>\$5>\$1.

Any denominations that are unused are simply skipped in the order.



Mix 1 Max and Mix 2 Max– The value of the bills to be dispensed determines what mix is used for that dispense. DynaCore uses a “3 tier” preferred bill mix arrangement where a low dollar dispense can have a different preferred bill mix than a high dollar dispense. DynaCore uses 2 “cutoff” amounts to determine which mix preference to use. The Mix 1 quantities will be used for dispensing amounts from \$5 up to the amount set for Mix 1 Max. Any dispensable amount greater than the Mix 1 Max but not greater than the Mix 2 Max will use the Mix 2 preferred mix quantities. Any dispense greater than the Mix 2 Max will use the Mix 3 quantities. For example, with cutoffs set at \$300 and \$600 as in the picture above, Mix 1 would be for dispenses from \$5 - \$300, Mix 2 would be for dispenses from \$300.01 - \$600, and Mix 3 would be for a dispense of \$600.01 and up.

Denomination Mix Settings – Each denomination can have a piece count of bills set to determine how many bills of that denomination are selected to be dispensed before it moves to the next denomination in the Weighting order. Assuming the system will have \$1, \$5, \$10, \$20, \$50, and \$100 bills, there are preferred quantity settings for each of these denominations for each of the 3 mixes – a total of 18 quantity entries.

No Odds – While this option is selected the DynaCore system will not dispense any odd number of the selected denomination unless it is specifically requested.

Additional Details

- Any remaining amount larger than the combined mix setup for the active mix tier will dispense with the fewest bills possible.
- However, if “no odds” is checked for \$50s, an example dispense of \$50 will come out as 2 \$20s and 1 \$10 bill.
- If all the mix quantities are set at 0, the entire dispense will use the fewest bills (highest denominations) it can.



Example 1 Mix Settings

- **Low to High Weighting** \$1>\$5>\$10>\$20>\$50>\$100
- **Mix 1 Max at \$100 & Mix 2 Max at \$1000**

Denom	Mix 1(\$5-\$100)	Mix 2(\$100.01-\$1000)	Mix 3(\$1000.01 up)
\$1	5	0	0
\$5	1	2	0
\$10	1	1	0
\$20	4	4	0
\$50	0	2	2
\$100	0	0	0

Example Dispense 1 - \$87.00

In this example, the \$87 dispense is < \$100.01 so it is going to fall under Mix 1.

Because the Low to High Weighting is set, the first denomination that will be picked from is the \$1's. It will select 5 - \$1, decrease the amount left to \$82 and move on to the \$5. It then selects 1 - \$5, and decreases the amount left to \$77. It then selects 1 - \$10, and decreases the amount left to \$67. It then selects 3 - \$20, and decreases the amount left to \$7. The \$7 is picked as least bills which is 2 more \$1, and 1 more \$5. The dispense ends up being:

7 - \$1, 2 - \$5, 1 - \$10, & 3 - \$20

Example 2 Mix Settings

- **\$20's First Weighting** \$20>\$10>\$5>\$1>\$50>\$100
- **Mix 1 Max at \$100 & Mix 2 Max \$1000**

Denom	Mix 1(\$5-\$100)	Mix 2(\$100.01-\$1000)	Mix 3(\$1000.01 up)
\$1	5	0	0
\$5	1	2	0
\$10	1	1	0
\$20	4	4	0
\$50	0	2	2
\$100	0	0	0



Example Dispense 2 - \$275.00 - In this example, the \$275 dispense is going to fall under Mix 2.

Since \$20's First Weighting is being used, the first denomination that will be picked from is the \$20's. It will select 4 - \$20, decrease the amount left to \$195 and move on to the \$10. It then selects 1 - \$10, and decreases the amount left to \$185. It then selects 2 - \$5, and decreases the amount left to \$175. It then selects 2 - \$50, and decreases the amount left to \$75. The \$75, if it were to be picked as least bills, would cause a single \$50 to be dispensed. Since we only dispense the \$50 denomination in pairs, it is picked as 3 - \$20, 1 - \$10, and 1 - \$5. The dispense ends up being: 3 - \$5, 2 - \$10, 7 - \$20 & 2 - \$50

Example 3 Mix Settings

- **High to Low Weighting** \$100>\$50>\$20>\$10>\$5>\$1
- **Mix 1 Max at \$100 & Mix 2 Max at \$1000**

Denom	Mix 1(\$5-\$100)	Mix 2(\$100.01-\$1000)	Mix 3(\$1000.01 up)
\$1	5	0	0
\$5	1	2	0
\$10	1	1	0
\$20	4	4	0
\$50	0	2	2
\$100	0	0	0

Example Dispense 3 - \$1300.00 - In this example, the \$1300 dispense is going to fall under Mix 3.

Because the High to Low Weighting is set, the first denomination that will be picked from is the \$100's. \$100's are set at Zero so it will move on to the \$50's. It will select 2 - \$50, and decrease the amount left to \$1200. Since all the other denominations at Tier 3 are zero, it will dispense \$1200 as least bills, or 12 - \$100. The dispense ends up being: 2 - \$50, & 12 - \$100



Other Inventory Control Features

Inventory Control

Type	Weight	Mix 1 < 301	Mix 2 < 601	Mix 3 > 601	No Odds	Low	High	Teller Bundle	Manager Bundle
\$100	6	2	0	0	<input type="checkbox"/>	50	2000	100	100
\$50	5	0	2	2	<input checked="" type="checkbox"/>	50	2000	100	100
\$20	1	5	10	10	<input type="checkbox"/>	50	2000	100	100
\$10	2	0	0	0	<input type="checkbox"/>	50	2000	100	100
\$5	3	0	0	0	<input type="checkbox"/>	50	2000	100	100
\$1	4	0	0	0	<input type="checkbox"/>	50	2000	100	100

Mix 1 Max:
Mix 2 Max:

Low – This column sets the point at which DynaCore will warn users that the TCR inventory has gone below the listed number of notes of a certain denomination.

Near Full – This column sets the point at which DynaCore will warn users that the TCR inventory has gone above the listed number of notes of a certain denomination.

Teller Bundle – This column sets the number of bills that will be dispensed for each grouping of bills when “Use Bundles” is selected during a teller transaction.

Manager Bundle – This column sets the number of bills that will be dispensed for each grouping of bills when “Use Bundles” is selected in the Inventory Management screen



Security (Must have Security Setup Permission)

The Security screen controls the times when DynaCore can be used as well as the Duress dispense settings.

The screenshot shows a window titled "Security" with two main sections: "Vault Timer" and "Duress".

Vault Timer

Day	Start Time	End Time
Sunday	Locked	Locked
Monday	8:00 AM	5:00 PM
Tuesday	8:00 AM	5:00 PM
Wednesday	8:00 AM	5:00 PM
Thursday	8:00 AM	5:00 PM
Friday	8:00 AM	5:00 PM
Saturday	8:00 AM	1:00 PM

Duress

Type	Pieces
\$1	50
\$5	10
\$10	10
\$20	10
\$50	10
\$100	10

Amount: Lockout TCR Alarm Core Alarm

Buttons: Save, Print, Cancel

Vault Timer

The "Vault Timer" function sets the hours of operation during which the DynaCore system can be used to take money in or out of the TCR. The DynaCore system will still be functional but withdraws and deposits cannot be made outside of these times. Instead of setting times, you can select "Locked" so that DynaCore will be unavailable for the entire day. You can also disable the Vault Timer if you do not want to use it by selecting "No Timer" in the drop-down menu of each time slot. See the example below:

A close-up of a "Start Time" dropdown menu. The menu is open, showing the following options: "No Timer" (highlighted in blue), "No Timer", "Locked", "12:00 AM", and "12:30 AM".



Duress Settings

The DynaCore system can trigger an emergency dispense if prompted by a teller hitting the appropriate keyboard hot key. This dispense can either be for a predetermined mixture of bills or a set amount.

Duress Mix Settings – If you want the TCR to dispense an exact mixture of bills you can enter the number of bills of each denomination into the grid labeled “Type/Pieces”.

Amount – If you just want the TCR to dispense a certain amount and do not care about the mixture of bills you can enter the total amount into the field labeled “Amount” and leave the Pieces entries blank in the grid above it.

Lockout – You can set the DynaCore system to enter a mandatory Lockout whenever a Duress dispense is activated. If this option is selected the DynaCore system will be unable to withdraw anything from the TCR. Any attempt to do so will be met with a warning message that says “Link Error X” until a user with the necessary credentials overrides the Lockout by processing the Duress warning in the Warnings screen. During this Lockout, deposits into the TCR will still be possible, as well as any functions in the Inventory Management screen.

See the [Releasing Duress Lockout](#) section on page 92 of this manual for instructions on how to unlock the TCR after a Duress dispense with the Lockout feature.

TCR Alarm – If the TCR is connected to the financial institution’s alarm panel you can set the DynaCore system to activate the TCR’s alarm whenever a Duress dispense is triggered. DynaCore will not trigger the TCR’s alarm unless this option is selected.

Core Alarm – If the DynaCore system itself is connected to the financial institution’s alarm panel then selecting this option will cause DynaCore to activate the bank’s alarm when a Duress dispense is triggered.



Network Setup (Must have Network Setup Permission)

Network Setup

Enable LAN Use DHCP

Setting	LAN 1
IP Address	192.168.1.78
Net Mask	255.255.255.0
Gateway	192.168.1.1
MAC Address	00:03:f4:0f:c3:b3
DNS 1	0.0.0.0
DNS 2	0.0.0.0
EJ Server	0.0.0.0
EJ Port	9007
NTP Server	0.0.0.0

Time Zone: GMT-05:00 Eastern Time

Electronic Journal: Disabled

Setting	Audit Header
Institution	DynaCore Test Bank
Address 1	DynaCore Ave.
Address 2	DynaCore City
Station ID	3030
Location ID	Drive Through Window
Branch ID	Test Branch
Region ID	Test Region


➤ PARTS OF THE MENU

Enable LAN – This option must be selected for the DynaCore appliance to communicate via LAN. If it is not selected both LAN ports will be disabled and the DynaCore appliance will default to USB communication. You will have to restart the DynaCore console to reestablish connection with the appliance via USB.

Use DHCP – This option will cause the DynaCore appliance to use DHCP when communicating via LAN. DynaCore requires a MAC address reservation to be set up so that it will always have the same IP address in the DynaCore.ini file. If DynaCore cannot resolve a connection with the DHCP server within 6 seconds it will default to whatever address is assigned to LAN 1, so it is a good practice to put the reserved IP information into LAN 1 even though it is not required while operating in a DHCP environment.

LAN Settings – The LAN settings section, on the left side of the screen, shows what IP information is assigned to the two different ethernet adapters built into the DynaCore



controller box. In the image shown above, it is currently displaying the information for the “LAN 1” port. You can toggle between this information and the same information for the “Auxiliary LAN” port by clicking this symbol .

The LAN 1 port, labeled “LAN 1” on the front of the DynaCore controller, is the primary LAN port on the DynaCore controller and corresponds to the “Primary LAN” setting in the DynaCore Hardware Settings menu. While the LAN settings section of the menu is labeled LAN 1, you can edit the static IP address, netmask, and gateway for the LAN 1 port in the grid below the button. The MAC address for the LAN 1 port will also be displayed beneath these fields. The LAN 1 port can support up to 2 DNS servers in the provided spaces.

The LAN 1 port is intended to connect the DynaCore Controller to the local network, allowing communication between the Controller and teller workstations running the DynaCore Console software, as well as the DynaLog Server that stores transaction history. If you do not connect the LAN 1 port to the local network you will not be able to use the DynaLog Server or Viewer programs, but you can still log into DynaCore Console by making a USB connection from the teller workstations to the USB 1 and USB 2 ports on the front of the Controller. This method will limit you to 2 active users at once, as opposed to the 6 active users allowed with a LAN connection.

The Auxiliary LAN port, labeled “TCR LAN” on the back of the DynaCore controller, is the secondary LAN port on the DynaCore controller and corresponds to the “Auxiliary LAN” setting in the DynaCore Hardware Settings menu. While the LAN settings section of the menu is labeled Auxiliary LAN, you can edit the static IP address, netmask, and gateway for the LAN 1 port in the grid below the button. The MAC address for the Auxiliary LAN port will also be displayed beneath these fields. The Auxiliary LAN port can support up to 2 DNS servers in the provided spaces.

The Auxiliary LAN port is intended to connect the TCR directly to the DynaCore controller, by passing the financial institution’s local network. This is the standardly recommended way of connecting most TCRs that can communicate over LAN to the TCR. It reduces the likelihood of something on their network causing interference with the communication between the two devices, thereby making the connection between DynaCore and the TCR more stable.

Server Settings – Separate from the LAN settings, there are three fields that provision space for information about servers the DynaCore controller will connect to.

EJ Server – The DynaLog Server program runs as a service on any windows device on the financial institution’s network. It monitors the activity in DynaCore and records a duplicate record of all transaction information on the FI’s network, acting as a backup of the data stored locally on the DynaCore controller. Enter the IP address of the device hosting DynaLog Server in this field and set the “Electronic Journal” option in the top



right corner to “DynaLog” for DynaCore to write all transaction data to the DynaLog Server.

EJ Port – By default, the DynaCore controller will connect to the DynaLog server over port 9007, also using port 9008 as a maintenance port. Both ports need to be open for DynaCore to communicate with DynaLog Server. This communication port can be changed, but if it is changed in the DynaCore controller configuration, then it must also be changed on the DynaLog server side. Speak to your DynaCore dealer about making the needed configurations to the DynaLog server if needed, but the default port of 9007 is recommended for the best results.

NTP Server – The Network Time Protocol Server field is where you would plug in the IP address of an NTP server you want DynaCore to synchronize with. Alternatively, you can use the NTP server’s hostname if the DynaCore Controller has DNS enabled, either by adding a Static IP address for the DNS Servers, or by having DNS Server IP addresses assign by way of DHCP. This feature is optional, you can leave this field blank and the DynaCore controller will synchronize its time with the first teller workstation to connect to it in a 24-hour period.

Time Zone – Use this field to account for the time difference if the NTP server you are connecting to is in a different time zone. You should set this field as the time zone of the DynaCore controller.

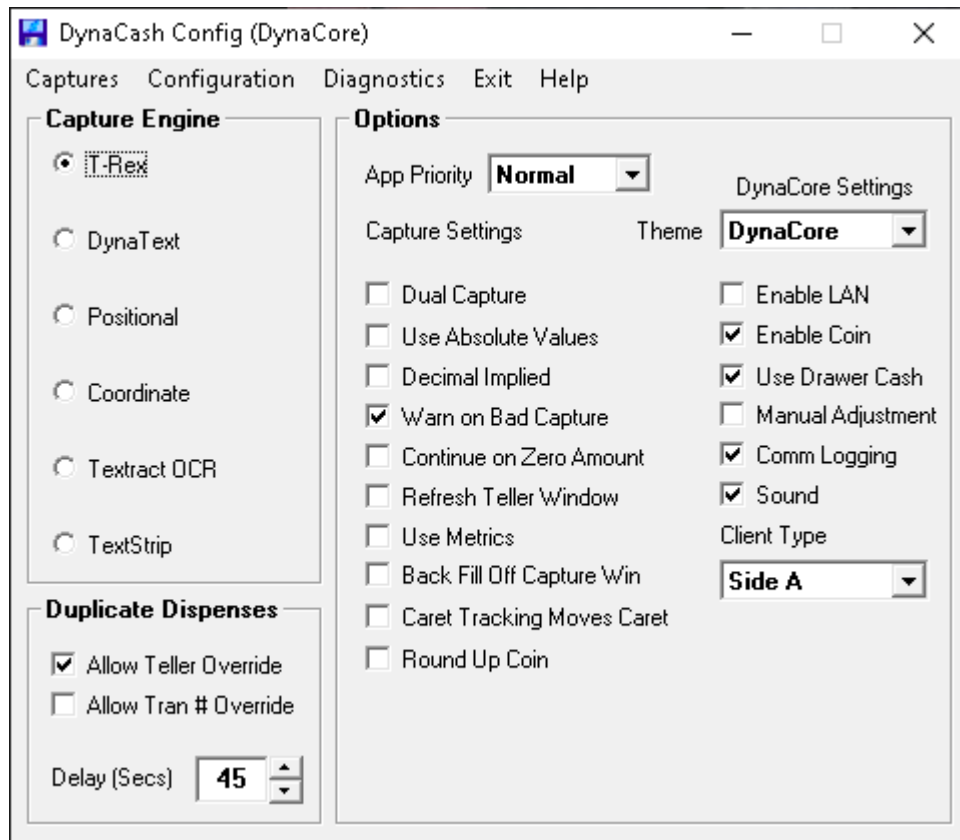
Electronic Journal – This drop-down menu will let you choose whether you use a DynaLog server or to disable the feature.

Audit Header – By typing directly into the fields of the grid available you can change the header information that will appear at the top of the DynaLog print stream from a power cycle or new day. All entries are alphanumeric capable.



DynaConfig

The DynaConfig utility is used to set up the screen markings that allow DynaCore to communicate with the user's teller application, as well as controlling other variables about how DynaCore functions. Access to this part of the program is usually gated behind a security password. Please consult with your DynaCore hardware provider for more information about the DynaConfig utility.





Update Firmware (Must have Update Firmware Permission)

This menu option allows you to upload new firmware onto the DynaCore appliance.

Click on the Update firmware button to open the window shown below. If you click the folder icon to the right of the UNC path field, it will let you browse your computer or network for firmware to upload. This browser feature will default to looking in the AutoUpdate folder within the DynaCore directory on your computer.

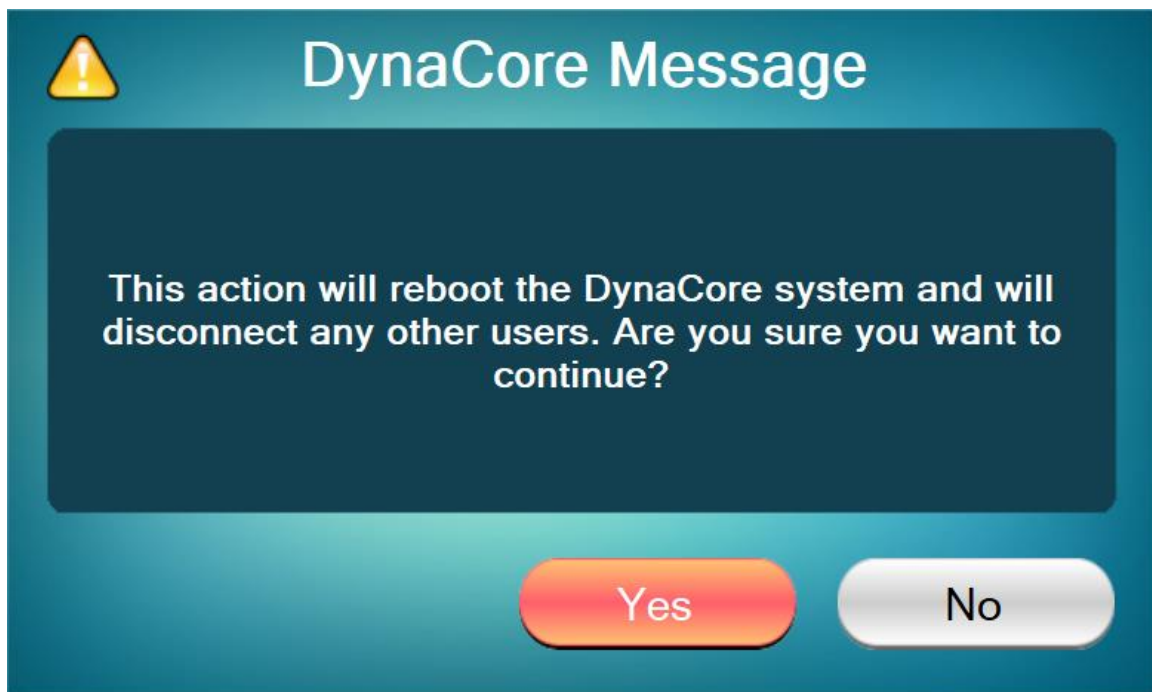


Depending on whether your DynaCore appliance is currently running firmware older than 10.03.302, you may need to reconfigure the DynaCore desktop software to complete the firmware update procedure. If your DynaCore appliance is running firmware version 10.03.302 or later, consult with your DynaCore hardware provider about updating the firmware.



Reboot Core (Must have Reboot System Permission)

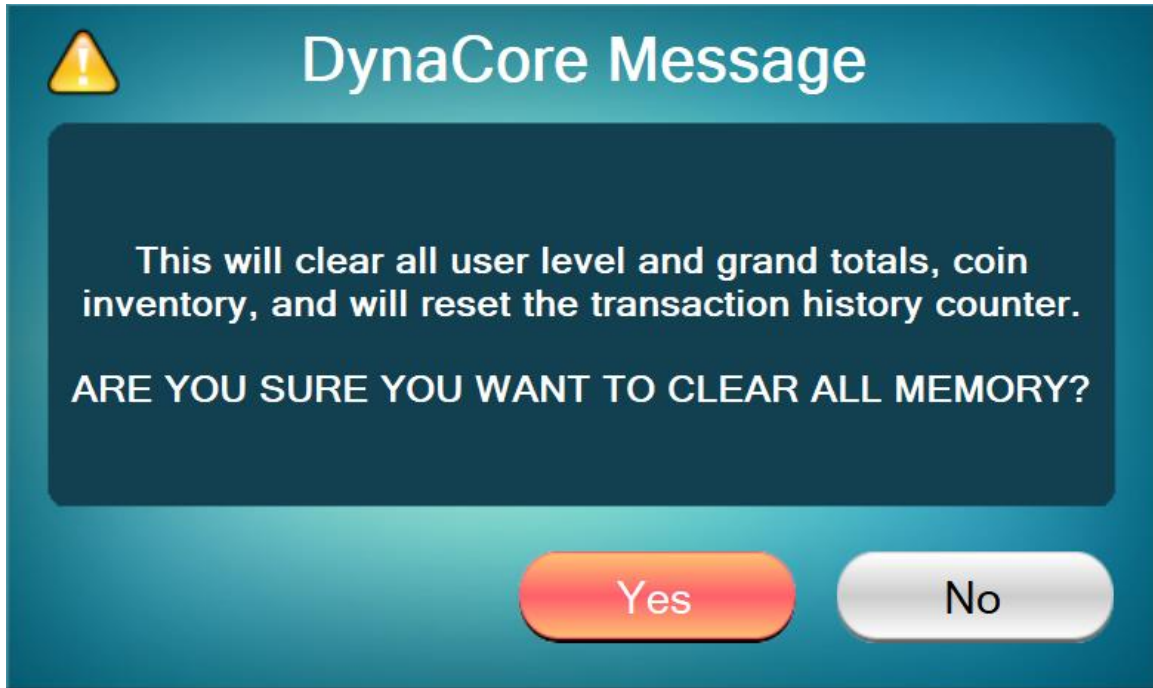
This option will reboot the DynaCore appliance without having to physically handle the device. It will sever connection with the DynaCore console, all users currently logged on, and the DynaLog server if it is being used. If you select this menu option, you will get the below message asking if you are sure that you want to do so. You may need to close out of the DynaCore console and reopen it to reestablish the connection.





Default Core (Must have Default System Permission)



This option will completely erase all user totals, coin inventory, and your stored transaction history. However, the onboard record of the DynaLog Electronic Journal will not be erased, nor will your users and their groups. If you select this menu option, you will get the message below asking if you are sure you want to erase this information.

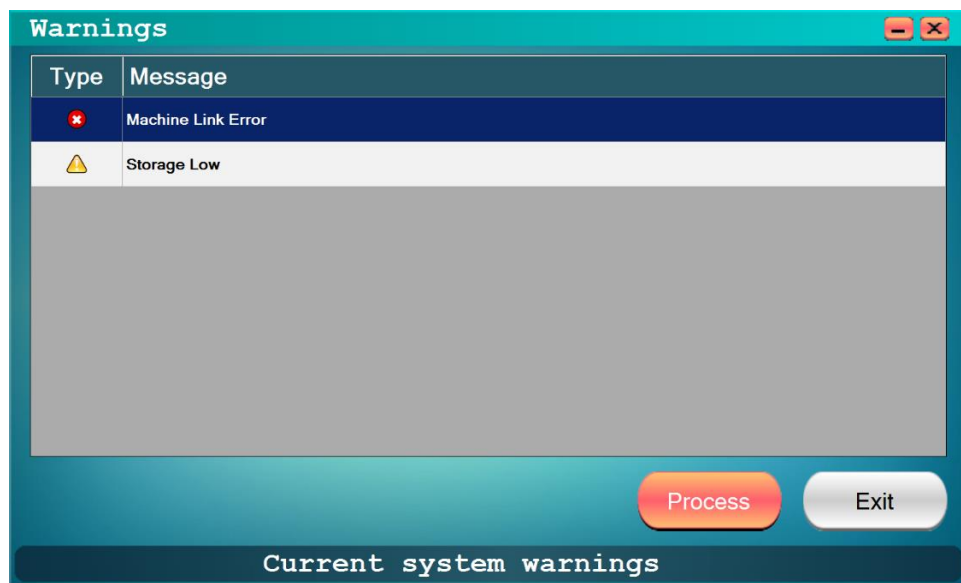


Warnings

The Warnings menu is available in the top right of the DynaCore base menu.



The warnings menu will show you what errors DynaCore and the TCR have encountered. High priority warnings will be shown with , while low priority warnings will be indicated with .

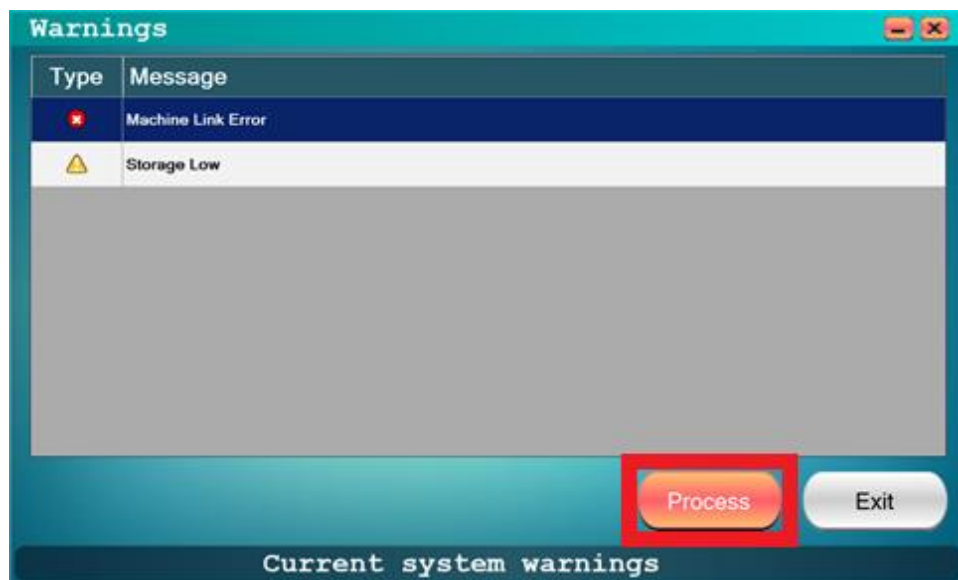




Some of the things listed in the Warnings menu will just be cautionary. For example, the ⚠ Storage Low warning shown above is just an indicator that one or more cassettes in the TCR is running low on notes. This kind of warning doesn't require any immediate action, it's just to let you know in advance so you aren't caught unaware.

However, sometimes an item in the Warnings menu will require immediate action before you can continue using the TCR. For example, in the above example you would have to resolve the ❌ Machine Link Error warning before you could do any transactions with the TCR.

To resolve an issue like this, click the warning you want to resolve, then click the Process button. DynaCore will attempt whatever corrective action is necessary to resolve the issue.





Some issues listed in the Warnings Menu may require you to take corrective action outside of DynaCore. For example, in the illustration provided above the Machine Link Error warning would require you to make sure both DynaCore and the TCR were online and able to communicate with each other.

There are some menus in DynaCore, such as the Empty Notes menu under Inventory Management, where you will see a ⚠ warning icon in the bottom left of the menu.

Empty Notes

RSM	Current Qty	Current Amt	Empty	Removed Qty	Removed Amt
1 \$1	361	361.00	<input type="checkbox"/>	0	0.00
2 \$1	356	356.00	<input type="checkbox"/>	0	0.00
3 \$5	15	75.00	<input type="checkbox"/>	0	0.00
4 \$10	21	210.00	<input type="checkbox"/>	0	0.00
5 \$20	4	80.00	<input type="checkbox"/>	0	0.00
6 \$20	3	60.00	<input type="checkbox"/>	0	0.00
7 \$50	3	150.00	<input type="checkbox"/>	0	0.00
8 \$100	0	0.00	<input type="checkbox"/>	0	0.00

 Select modules to empty

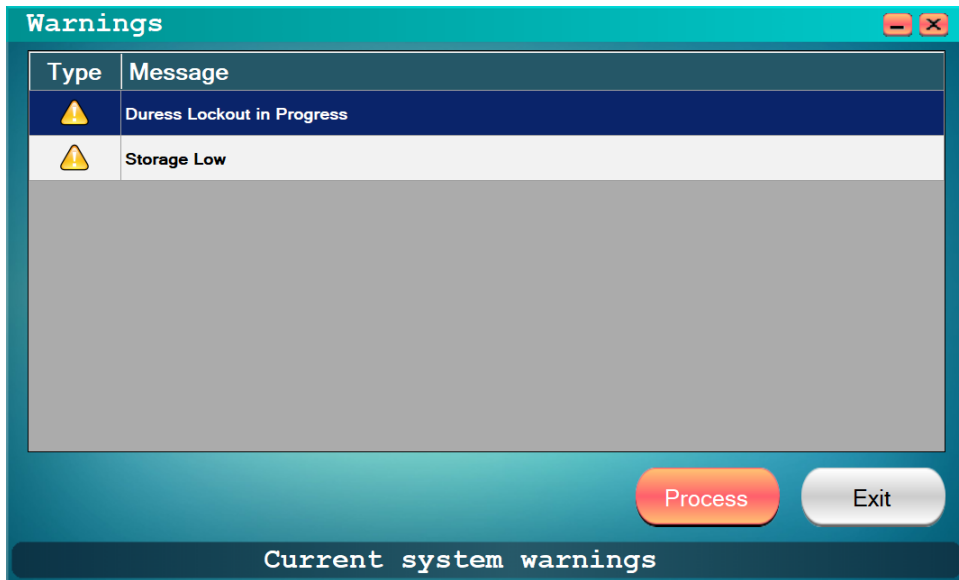
On screens like this if you hover your mouse over the  warning icon you will be able to see what warnings are currently registered in DynaCore, as shown below.





Releasing Duress Lockout (Requires Duress Mode Exit Permission)

If the Duress Lockout feature is enabled and a teller does a Duress dispense the TCR will complete the dispense, then go into a locked mode where it will not be able to dispense bills until the lockout is cleared in the Warnings screen. To release a Duress Lockout, you will need to be in a security group with Duress Mode Exit permission. Go into the Warnings Screen and select the Duress message, as shown below:



When you have the “Duress Lockout in Progress” message selected, click the Process button in the bottom right of the screen. If you have Duress Mode Exit permission, you will be given a message saying the TCR is unlocked.



TCR Communication Settings

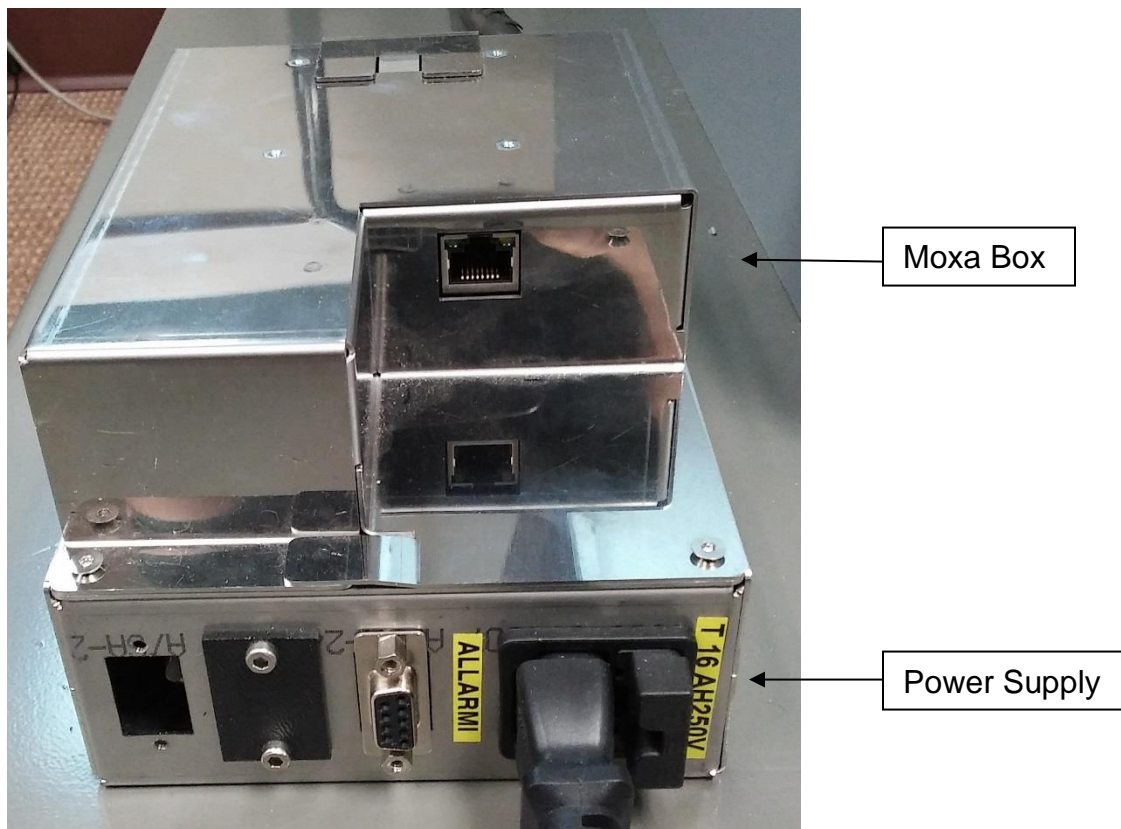
Before the DynaCore Controller can be connected to the recycler, the recycler's Moxa Box must be configured to interface with the DynaCore Controller. Speak to your hardware provider about configuring the Moxa Box for communication with the DynaCore Controller as outlined below.

Required Tools

- 5/64th size hex wrench
- Wire snips
- Needle nose pliers
- 2 jack screws (included with DynaCore to recycler cable)

The Moxa Box – Construction

The Moxa Box is a small L-shaped metal box that is connected to and sits on top of the metal box housing the recycler's power supply. The two metal boxes are separated by a metal plate that wires pass through between the boxes. The only opening on the Moxa Box is a LAN port facing the same side as the power cord leading to the outlet.



Configuring the Moxa Box

The Moxa Box is a device that allows the DynaCore Controller to communicate with the recycler by converting a LAN input into a serial connection that is compatible with the DynaCore Controller's signal output.

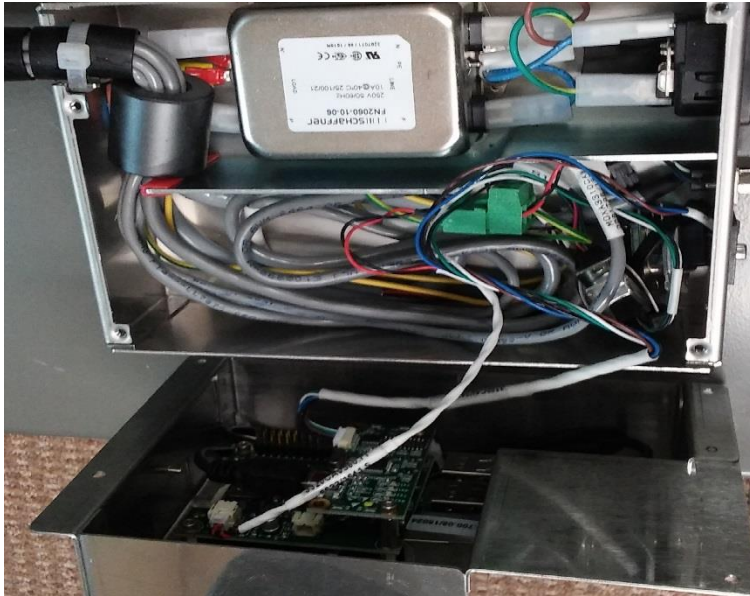
1. Open the power supply box with a 5/64th size hex wrench. There are 4 screws to be removed, two on the front of the box and two on the back.



2. With the screws removed, lift the Moxa Box to reveal the metal panel separating it and the power supply box.

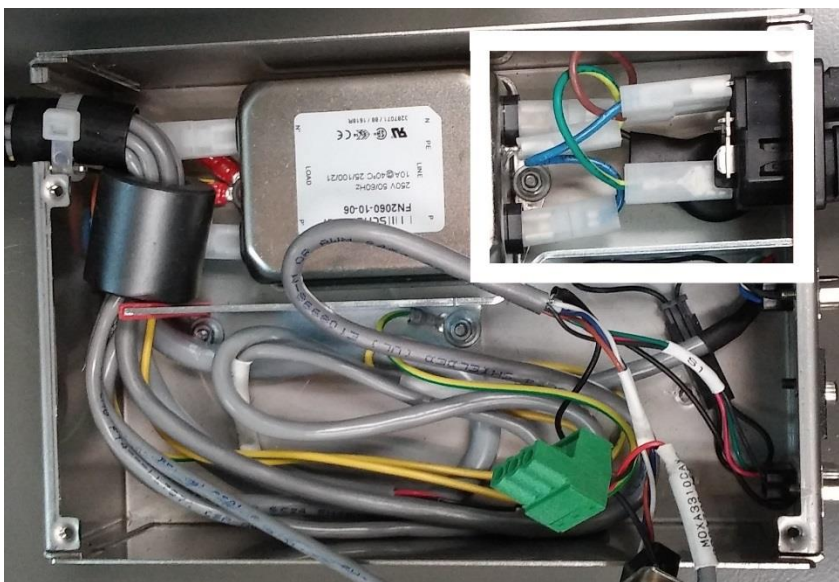


3. Remove the separator panel to reveal the wires in the power supply box.

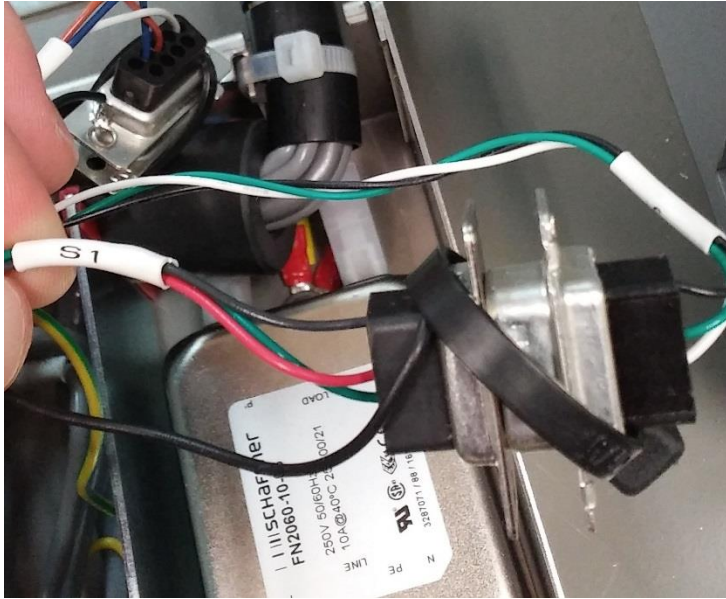


Warning: Live Wire

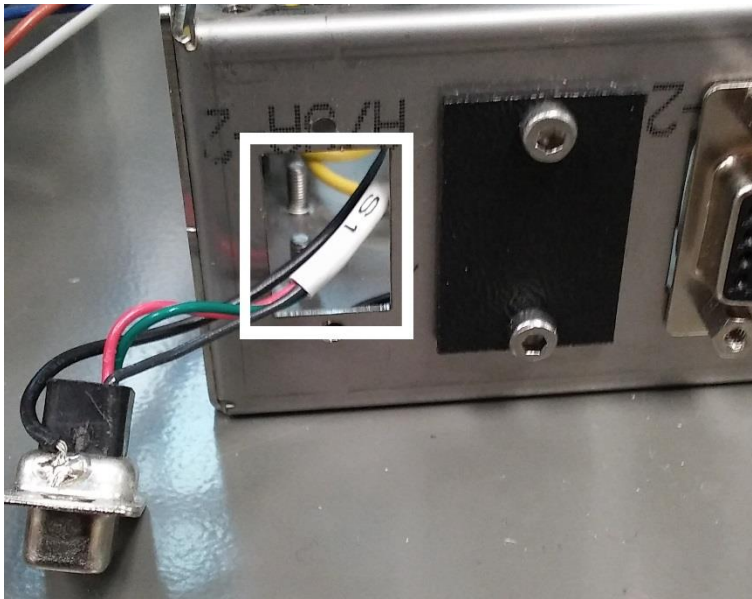
While performing this procedure, be mindful of whether the recycler is connected to a live power outlet. If it is, regardless of whether the recycler is turned on, there is a chance of electrical shock. Once the power supply box is open you will be able to see the area where the power cord connects from the recycler to a power outlet (this area is outlined in white below). Most of the metal in this area of the box is wrapped in plastic, but some of it is exposed so there is a possibility of electric shock. While working on the power supply box be careful not to let any instruments or your skin contact any exposed metal in this area.



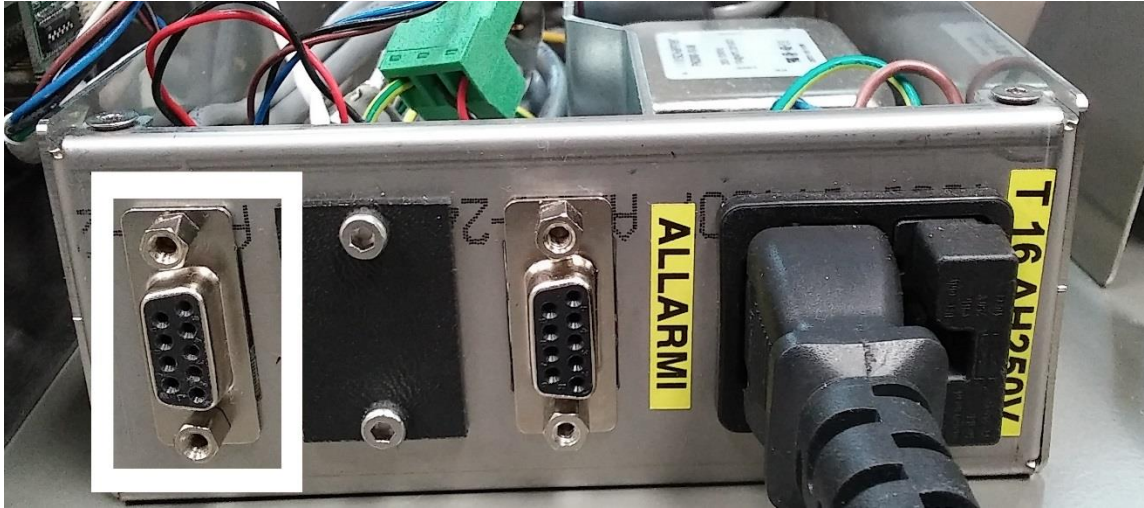
4. You will see 2 sets of serial connectors zip-tied together. Cut the zip-tie holding together the connectors labeled “S1” but leave the zip-tie holding together the connectors labeled “S2”. (Leaving the “S2” connection together allows service technicians to still connect their service tool to the recycler).



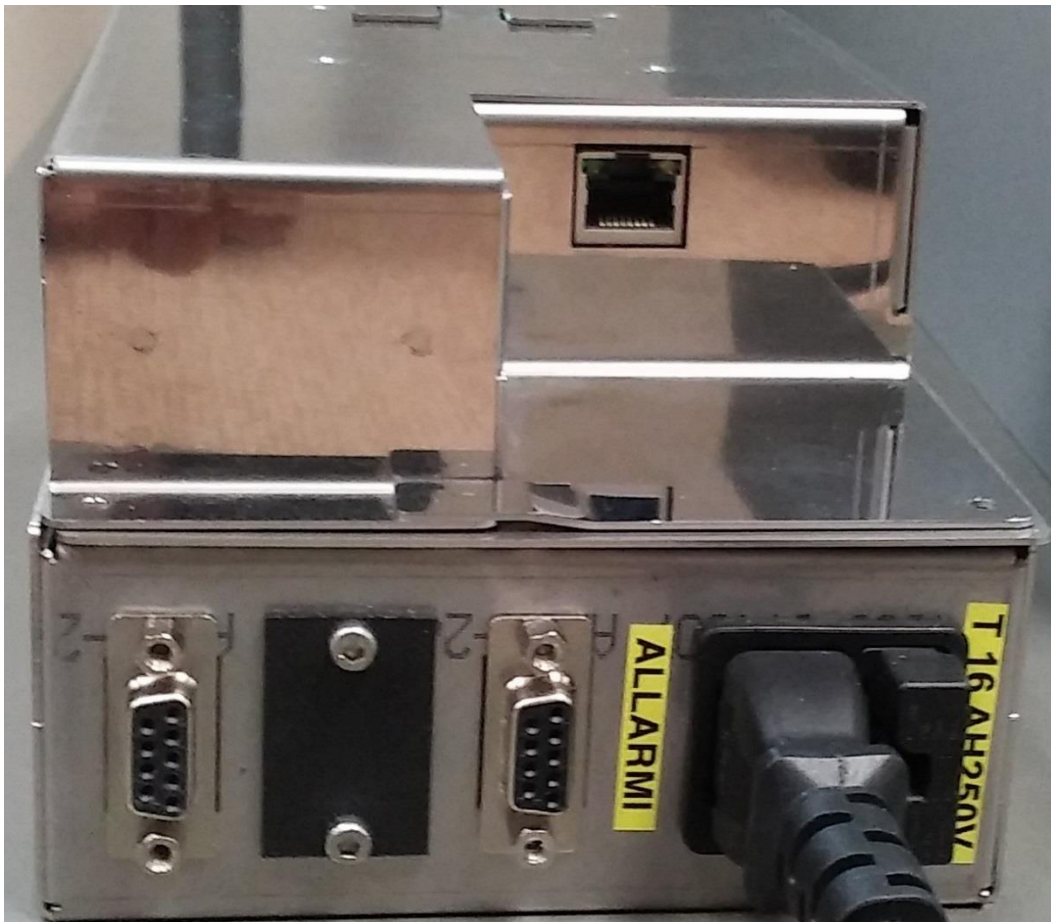
5. Leave the “S1” connector from the Moxa Box side (male connector) loose and tuck it into the Moxa Box so it will be out of the way.
6. Take the “S1” connector from the power supply side (female connector) and mount it on the appropriate slot, the one farthest from the power outlet.



7. Take the jack screws that were provided with the DynaCore to recycler cable and use them to secure the serial connector in place.



8. Reassemble and reseal the box with the hex wrench screws.



9. Connect the DynaCore Controller to recycler cord (Part # 5KCBL – CIMA) that was provided with your system to the serial port you just anchored into place.



10. You can now turn on the DynaCore Controller and open communications with the recycler.

*Moxa Box © 2018 is a property of Moxa Inc. All rights reserved.



Balancing

Teller Balancing

1. Before counting your drawer, the teller should open the DynaCore Reports menu and pull up their User Totals Report.
2. Within your teller application, either Buy or Sell the amount in red at the bottom of the report to or from the recycler ID within the teller application, processing any tickets just like you would between another teller or vault and yourself. *
3. From this point balance your cash drawer and end your day as normal.

User Totals Report		
Station:		123
Branch:		Test Branch
Region:		Test Region
02/18/20 06:25 PM		
Ray		
# of Deposits		0
# of Withdrawals		1
Deposit Total		.00
Denom	Pieces	Value
\$20	5	100.00
Withdrawal Total		100.00
Buy		100.00



*If your teller application does not allow your teller drawer to go negative, it may be necessary to perform a "Virtual Buy" at the beginning of your Shift. This is done to inflate your teller drawer to allow you to use the cash-in the recycler without having to process multiple "Buy" tickets throughout the day. After you have run the buy or sell on the teller report you will need to either reverse the "Virtual Buy" from the beginning of the day or perform a "Virtual Sell" for the same amount. You will want to process the User Totals Buy/Sell before you undo the "Virtual Buy" to prevent a negative drawer situation that may prevent you from running your DynaCore Buy/Sell.

Trial or mock balancing throughout the day can be done at any time. The teller would just need to trial balance their drawer as normal, taking into account any "Virtual Buys" that may have needed to be done. When the drawer has been added up the teller should have an outage showing either over or short, depending on the Cash-In's and Cash Out's they have done. This shortage should match the Buy or Sell in your User Totals.

Manager Balancing

A Manager will need to login to DynaCore and go to the Reports Menu to print out the Activity Report. Once the Activity Report is printed (Physically or to DynaLog) they will then be prompted to clear the totals. This should only be done after all the tellers have already balanced their drawers for the day. Once the totals are cleared the system will be ready to be used for the next business day. Finally, the recycler custodian will need to process the opposite/counter buy/sell tickets that the tellers processed to balance their drawer. The Activity Report's Inventory section can then be used to balance the recycler's drawer in the teller application.