

Transact Payment Systems, Inc.

EZCash® Monitor User's Guide

December 17, 2007

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Prologue

The EZCash Monitor program allows you to balance and troubleshoot your ATMs. Typical balancing procedures include running the daily Transactions report (a chronological list of transactions for one day) and Balancing report (the transactions between the times you loaded cash and balanced your ATMs). EZCash Monitor will also allow you to look at transactions and ATM statuses in real time to help troubleshoot any problems the ATMs may incur.

The EZCash Monitor is broken into three easy to use sections:

- 1. **Devices:** This user interface will be your main tool for accessing data from your devices. From this interface you can quickly communicate with your devices and view statuses, bill counts, and retrieve transaction information.
- 2. **Transactions:** Shortcut to your ATM transaction data. From the Transaction window you can view and print the daily transaction report, balancing report or even build custom reports. The data from these reports contain all the dispensing activity from the ATM.
- 3. Accounts: This tool allows you to view and build reports that contain all the issued transaction requests generated by your scale purchasing system. This will include any outstanding requests that have not currently been paid by the ATM.

Running the Daily Transactions Report

- 1. To run the daily report, run the EZCash Monitor.
- 2. From the EZCash Monitor's Main Menu, select the **Devices** button as shown below.

💋 E File	ZCash Monitor 📃 🗖 🔀
	Devices
	Transactions
	Accounts

Connected to NDC server.

3. A new dialog window will open. In the new window, right click on the device you would like to view and select **Today's Transactions** as shown below.

🥖 Cash Disp	ensers	and ATMs								
View										
Dev ID	Descr	iption	State	Bills in 1	Bills in 2	Bills in 3	Bills in 4	Bills in 5	Bills in 6	Remaining
100	Casl	Details	iwn		80	200	400			\$16,006.00
101	Coin	Today's Transaction Send Up Send Down Send Load Request Config Get Totals Reset State Clear Caution Statu Disconnect	s	150	300	600	1500	3000	15000	\$900.00
Print]									Close

4. A new dialog window will open displaying all the devices transactions for the day. Screen shown below.

Date	Dev ID	Status	Err Code	Tran Cd	Card #	receipt nbr	Amt Reg	A
1/2/2008 3:26:01 PM	100	12	0	WDL	1540975289		156.40	
1/2/2008 3:10:21 PM	100	12	0	WDL	1540955262		153.00	
1/2/2008 3:04:26 PM	100	12	0	WDL	1540945263		5.60	
/2/2008 3:02:56 PM	100	12	0	WDL	1540935274		17.50	
/2/2008 3:01:48 PM	100	12	0	WDL	1540925276		493.00	
/2/2008 2:59:24 PM	100	12	0	WDL	1540915274		357.00	
/2/2008 2:58:07 PM	100	12	0	WDL	1540905276		156.60	
/2/2008 2:56:54 PM	100	12	0	WDL	1540895273		47.60	
/2/2008 2:56:12 PM	100	12	0	WDL	1540885289		96.90	
/2/2008 2:54:34 PM	100	12	0	WDL	1540875273		59.50	
/2/2008 2:53:10 PM	100	12	0	WDL	1540865277		133.25	
/2/2008 2:49:55 PM	100	12	0	WDL	1540845278		108.80	
/2/2008 2:49:36 PM	100	12	0	WDL	1540855278		8.80	
/2/2008 2:45:12 PM	100	12	0	WDL	1540835288		956.80	
/2/2008 2:37:06 PM	100	12	0	WDL	1540825277		304.30	1
1/2/2008 2:45:12 PM 1/2/2008 2:37:06 PM	100 100	12 12	0	WDL WDL	1540835288 1540825277		956.80 304.30	

5. To view a summary of a day's business or change the day you would like to view, select the **Date Range** tab. Screen shown below.

classocial Range Balancing Custom Query Query Results January, 2008 January, 2008 January, 2008 n Mon Tue Wed Thu Fri Sat January, 2008 1 2 3 4 5 7 8 9 10 11 12 6 7 8 9 10 11 12 1 1 1 1 2 3 4 5 7 8 9 10 11 12 6 7 8 9 10 11 12 1 1 1 2 3 4 5 6 7 8 9 10 11 12 1 </th <th>ansactions Range Balancing Custom Query Query Results January, 2008 S Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat 1 2 3 4 5 1 2 3 4 5 7 8 9 10 11 12 6 7 8 9 10 11 12</th>	ansactions Range Balancing Custom Query Query Results January, 2008 S Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat 1 2 3 4 5 1 2 3 4 5 7 8 9 10 11 12 6 7 8 9 10 11 12
Balancing Custom Query Query Results January, 2008 January, 2008 January, 2008 n Mon Tue Wed Thu Fri Sat 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 7 8 9 10 11 12 6 7 8 9 10 11 12 1 16 17 18 19 13 14 15 16 17 18 19 1 2 23 24 25 26 20 21 22 23 24 25 26 28 29 30 31 27 28 29 30 31 Today: 8/26/2008 Today: 8/26/2008 Today: 8/26/2008 Limit query to specific device ID 100: Cash dispenser Val 1 Transaction count 96 2ash Dispensed \$16,345.00 2ash Dispensed \$37.65 Total Dispensed \$16,382.65 <t< td=""><td>Balancing Custom Query Query Results January, 2008 January, 2008 January, 2008 n Mon Tue Wed Thu Fri Sat 1 2 3 4 5 7 8 9 10 11 12 3 4 5</td></t<>	Balancing Custom Query Query Results January, 2008 January, 2008 January, 2008 n Mon Tue Wed Thu Fri Sat 1 2 3 4 5 7 8 9 10 11 12 3 4 5
January, 2008 January, 2008 n Mon Tue Wed Thu Fri Sat I 2 3 4 5 1 2 3 4 5 1 2 3 4 5 7 8 9 10 11 12 6 7 8 9 10 11 12 4 15 16 17 18 19 13 14 15 16 17 18 19 21 22 23 24 25 26 20 21 22 23 24 25 26 28 29 30 31 27 28 29 30 31 Today: 8/26/2008 Today: 8/26/2008 Today: 8/26/2008 Imit query to specific device ID 100: Cash dispenser Val Summary Description Val Yal Yal Yal Transaction count 96 Cash Dispensed \$16,345.00 Goin Dispensed \$37.65 Print Average Transaction \$16,382.65 Average Transaction \$170.65	January, 2008 January, 2008 n Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat 1 2 3 4 5 7 8 9 10 11 12 3 4 5
January, 2008 January, 2008 n Mon Tue Wed Thu Fri Sat Image: Constraint of the state of the	January, 2008 January, 2008 n Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat 1 2 3 4 5 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12
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1 2 3 4 5 1 2 3 4 5 7 8 9 10 11 12 6 7 8 9 10 11 12 8 14 15 16 17 18 19 13 14 15 16 17 18 19 21 22 23 24 25 26 20 21 22 23 24 25 26 28 29 30 31 27 28 29 30 31 Today: 8/26/2008 Today: 8/26/2008 Today: 8/26/2008 Limit query to specific device ID 100: Cash dispenser Val Transaction count 96 Cash Dispensed \$16,345.00 Coin Dispensed \$37.65 Today: \$16,382.65 Print Average Transaction \$16,382.65 Average Transaction \$170.65	1 2 3 4 5 1 2 3 4 5 7 8 9 10 11 12 6 7 8 9 10 11 12
7 8 9 10 11 12 6 7 8 9 10 11 12 8 14 15 16 17 18 19 13 14 15 16 17 18 19 0 21 22 23 24 25 26 21 22 23 24 25 26 28 29 30 31 27 28 29 30 31 Today: 8/26/2008 Today: 8/26/2008 Today: 8/26/2008 100: Cash dispenser v Limit query to specific device ID 100: Cash dispenser val 1 Transaction count 96 Cash Dispensed \$16,345.00 100: Coin Dispensed \$37.65 Details 70tal Dispensed \$16,382.65 Average Transaction \$16,382.65 4verage Transaction \$170.65	7 8 9 10 11 12 6 7 8 9 10 11 12
3 14 15 16 17 18 19 12 12 23 24 25 26 20 21 22 23 24 25 26 7 28 29 30 31 27 28 29 30 31 Today: 8/26/2008 Today: 8/26/2008 Today: 8/26/2008 Today: 8/26/2008 Limit query to specific device ID 100: Cash dispenser ✓ Summary Description Val Transaction count 96 Cash Dispensed \$16,345.00 Coin Dispensed \$16,382.65 Total Dispensed \$16,382.65 Average Transaction \$170.65	
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7 28 29 30 31 Today: 8/26/2008 Today: 8/26/2008 Limit query to specific device ID 100: Cash dispenser Imit query to specific device ID Summary Description Val Transaction count 96 Cash Dispensed \$16,345.00 Coin Dispensed \$37.65 Total Dispensed \$16,382.65 Average Transaction \$170.65	21 22 23 24 25 26 20 21 22 23 24 25 26
Today: 8/26/2008Today: 8/26/2008Limit query to specific device ID100: Cash dispenserSummaryDescriptionValTransaction count96Cash Dispensed\$16,345.00Coin Dispensed\$37.65Total Dispensed\$16,382.65Average Transaction\$170.65	28 29 30 31 27 28 29 30 31
Today: 8/26/2008 Today: 8/26/2008 Limit query to specific device ID 100: Cash dispenser Summary Description Val Transaction count 96 Cash Dispensed \$16,345.00 Coin Dispensed \$37.65 Total Dispensed \$16,382.65 Average Transaction \$170.65	
Limit query to specific device ID 100: Cash dispenser Summary Description Val Transaction count 96 Cash Dispensed \$16,345.00 Coin Dispensed \$37.65 Total Dispensed \$16,382.65 Average Transaction \$170.65	Today: 8/26/2008 Today: 8/26/2008
Limit query to specific device ID 100: Cash dispenser Summary Description Val Transaction count 96 Cash Dispensed \$16,345.00 Coin Dispensed \$37.65 Total Dispensed \$16,382.65 Average Transaction \$170.65	
Summary Description Val Transaction count 96 Cash Dispensed \$16,345.00 Coin Dispensed \$37,65 Total Dispensed \$16,382.65 Print Average Transaction \$170.65	Limit query to specific device ID 100: Cash dispenser
Summary Description Val Transaction count 96 Cash Dispensed \$16,345.00 Coin Dispensed \$37.65 Total Dispensed \$16,382.65 Print Average Transaction \$170.65	
Transaction count 96 Cash Dispensed \$16,345.00 Coin Dispensed \$37.65 Total Dispensed \$32.65 Print Average Transaction \$170.65	Summary Description Val
Details Cash Dispensed \$16,345.00 Coin Dispensed \$37.65 Total Dispensed \$16,382.65 Print Average Transaction \$170.65	Transaction count 96
Details Coin Dispensed \$37.65 Total Dispensed \$16,382.65 Print Average Transaction \$170.65	Cash Dispensed \$16,345.00
Print Total Dispensed \$16,382.65 Average Transaction \$170.65	Coin Dispensed \$37.65
Print Average Transaction \$170.65	Total Dispensed \$16,382.65
	Print Average Transaction \$170.65

6. From this screen you can select any date range you wish and view summaries for one or more days. To view the detailed transaction report for your selections, simply press the **Details** button. The daily summary and transaction reports should balance with your scale purchasing system.

Running the Balancing Cycle Report

To run the balancing cycle report, run the EZCash Monitor.

1. From the EZCash Monitor's Main Menu, select the **Devices** button as shown below.

💋 l File	ZCash Monitor 📃 🗖 🔀
	Devices
	Transactions
	Accounts

Connected to NDC server.	
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2. A new dialog window will open. In the new window, right click on the device you would like to view and select **Today's Transactions** as shown below.

Description State Bills in 1 Bills in 2 Bills in 3 Bills in 4 Bills in 5 Bills in 6 Remaining 100 Cast Details iwn 40 80 200 400 1 1 \$16,006.00 101 Coin Today's Transactions iwn 150 300 600 1500 3000 15000 \$900.00 Send Up Send Load Request Config request Config request Config request Config Rest State rest State rest State	Dev D Description State Bills in 1 Bills in 2 Bills in 3 Bills in 4 Bills in 5 Bills in 6 Remaining 100 Cast Details Ivvn 40 80 200 400 1 1 \$16,006.00 101 Coin Today's Transactions Ivvn 40 80 200 400 1 1 \$16,006.00 Send Up Send Up Send Up Send Load Request Config Ivvn 150 300 600 1500 3000 \$900.00 Get Totals Reset State Clear Caution Status Disconnect Disconnect Ivvn	Cash Disp w	ensers	and ATMs								
100 Cast Details Wn 40 80 200 400 1 1 \$16,006.00 101 Coin Today's Transactions Iwn 150 300 600 1500 3000 15000 \$900.00 Send Up Send Load Request Config Get Totals Reset State Iwn 150 300 600 1500 3000 15000 \$900.00	100 Cast Details wn 40 80 200 400 1 1 \$16,006.00 Interview Today's Transactions Interview Interview </th <th>ev <mark>I</mark>D</th> <th>Descri</th> <th>ption</th> <th>State</th> <th>Bills in 1</th> <th>Bills in 2</th> <th>Bills in 3</th> <th>Bills in 4</th> <th>Bills in 5</th> <th>Bills in 6</th> <th>Remaining</th>	ev <mark>I</mark> D	Descri	ption	State	Bills in 1	Bills in 2	Bills in 3	Bills in 4	Bills in 5	Bills in 6	Remaining
	Clear Caution Status Disconnect	100	Casi	Details Today's Transaction Send Up Send Down Send Load Request Config Get Totals Reset State	wn	40	80	200 600	400	3000	1	\$16,006.00 \$900.00

3. A new dialog window will open displaying all the devices transactions for the day. Screen shown below.

Date	Dev ID	Status	Err Code	Tran Cd	Card #	receipt_nbr	Amt Reg	A
1/2/2008 3:26:01 PM	100	12	0	WDL	1540975289		156.40	
1/2/2008 3:10:21 PM	100	12	0	WDL	1540955262		153.00	
1/2/2008 3:04:26 PM	100	12	0	WDL	1540945263		5.60	
1/2/2008 3:02:56 PM	100	12	0	WDL	1540935274		17.50	
1/2/2008 3:01:48 PM	100	12	0	WDL	1540925276		493.00	
1/2/2008 2:59:24 PM	100	12	0	WDL	1540915274		357.00	
1/2/2008 2:58:07 PM	100	12	0	WDL	1540905276		156.60	Γ
1/2/2008 2:56:54 PM	100	12	0	WDL	1540895273		47.60	Γ
1/2/2008 2:56:12 PM	100	12	0	WDL	1540885289		96.90	Γ
1/2/2008 2:54:34 PM	100	12	0	WDL	1540875273		59.50	
1/2/2008 2:53:10 PM	100	12	0	WDL	1540865277		133.25	
1/2/2008 2:49:55 PM	100	12	0	WDL	1540845278		108.80	
1/2/2008 2:49:36 PM	100	12	0	WDL	1540855278		8.80	
1/2/2008 2:45:12 PM	100	12	0	WDL	1540835288		956.80	
1/2/2008 2:37:06 PM	100	12	0	WDL	1540825277		304.30	Γ
< []]								>

4. Now select the **Balancing** tab. Screen shown below.

ing Custom Query Que	ery Results	
: Cash dispenser	Start Date 200	8-07-27
to view detail)	Print Replenish Detail	Transaction Detail Type 11 Detail
End Date	Description	Val
	ing Custom Query Que : Cash dispenser : to view detail) End Date	ing Custom Query Query Results Cash dispenser Cash dispenser

5. Select the device and start date for the cycle periods you would like to view. All balance cycles within the start date range will be displayed in the left window. Screen shown below.

e Range Balancing	Custom Query Quer	/Res	ults	
Device 100: Cas	sh dispenser		Start Date 2008-01-0	1
Cycle periods (click to vi	iew detail)		Print Replenish Detail	saction Detail
Start Date	End Date	^	Description	Val
2008-01-03 09:40:42	2008-01-09 10:50:39			
2008-01-09 10:50:39	2008-01-16 10:25:48			
2008-01-16 10:25:48	2008-01-25 11:20:00			
2008-01-25 11:20:00	2008-01-25 11:52:08			
2008-01-25 11:52:08	2008-01-25 14:14:19			
2008-01-25 14:14:19	2008-01-25 14:29:38	_		
2008-01-25 14:29:38	2008-01-25 15:01:57	=		
2008-01-25 15:01:57	2008-01-25 15:13:12			
2008-01-25 15:13:12	2008-01-30 10:35:18			
2008-01-30 10:35:18	2008-01-30 10:40:42			
2008-01-30 10:40:42	2008-01-30 10:45:44			
2008-01-30 10:45:44	2008-01-30 12:01:11			
2008-01-30 12:01:11	2008-01-30 12:10:09			
2008-01-30 12:10:09	2008-01-31 17:51:52			
2008-01-31 17:51:52	2008-02-04 12:03:46			
	2009-02-04 12:07:12			
2008-02-04 12:03:46	2000-02-04 12.07.13			

6. From here simply click on the balance cycle you want to view and the starting and ending totals will be displayed in the right window. Screen shown below.

ate Range Ba	alancing	Custom Query Query	Res	ults	
Device	100: Ca	sh dispenser		Start Date 2008-01-01	
Cycle periods	(click to v	ew detail)		Print Replenish Detail Trans	saction Detail Type 11 Detail
Start Date		End Date	~	Description	Val
2008-01-25 2008-01-30 2008-01-30 2008-01-30 2008-01-30 2008-01-30 2008-01-30 2008-02-04 2008-02-04 2008-02-04 2008-02-04 2008-02-04 2008-02-04 2008-02-04 2008-02-04	15:01:57 15:13:12 10:35:18 10:40:42 10:45:44 12:01:11 12:10:09 17:51:52 12:03:46 12:07:13 12:36:08 13:24:08 13:24:08 13:37:49 13:37:49 13:42:08	2008-01-25 15:13:12 2008-01-30 10:35:18 2008-01-30 10:40:42 2008-01-30 10:45:44 2008-01-30 12:01:11 2008-01-30 12:01:11 2008-02-04 12:01:12 2008-02-04 12:07:13 2008-02-04 12:31:11 2008-02-04 12:31:11 2008-02-04 13:24:08 2008-02-04 13:24:08 2008-02-04 13:24:08 2008-02-04 13:24:08 2008-02-04 13:24:08 2008-02-04 13:24:08 2008-02-04 13:24:08 2008-02-04 13:24:08		Start Added Term Bill Disp Host Bill Disp Term Remain Host Remain Transaction totals: Bill Total Coin Total Grand Total Ending cash Summary of balances (0=Balanced) Host vs. Term count Transactions vs. Host count Transactions vs. Term count	\$180,000.00 \$0.00 \$720.00 \$179,280.00 \$180,000.00 \$0.00 \$180,000.00 \$180,000.00 \$180,000.00 \$180,000.00 \$720.00 \$0.00 \$720.00

- 7. From this screen you can also view the **Replenish Details, Transaction Details, Type 11 Details** (transactions with errors) within this balance cycle by selecting the appropriate button.
- 8. The balance cycle totals should match with your bank settlements.

Problem Solving

In this example we will look at a transaction that did not dispense the proper amount of cash to the customer.

- 1. Run the EZCash Monitor.
- 2. From the EZCash Monitor's Main Menu, select the **Devices** button as shown below.

🖉 EZCash Monitor 📃 🗖 🔀
File
Devices
Transactions
Accounts
Connected to NDC server.

3. A new dialog window will open. In the new window, right click on the device you would like to view and select **Today's Transactions** as shown below.

Dev ID Description State Bills in 1 Bills in 2 Bills in 3 Bills in 4 Bills in 5 Bills in 6 Rem 100 Centrals Details Today's Transactions Server 40 80 200 400 1 1 \$16,0 101 Centrals Today's Transactions Server 150 300 600 1500 3000 15000 \$50 101 Centrals Send Up Send Load Request Config Get Totals Reset State Clear Caution Status Disconnect Jisconnect Jisconnect	w									
100 Ca Details Berver 40 80 200 400 1 1 \$16,0 101 Cd Today's Transactions Server 150 300 600 1500 3000 15000 \$50 Send Up Send Down Send Load Request Config Get Totals Reset State Get Totals Gear Caution Status Disconnect Jisconnect Jisconnect Jisconnect Jisconnect	Dev ID	Description	State	Bills in 1	Bills in 2	Bills in 3	Bills in 4	Bills in 5	Bills in 6	Remaining
101 Cc Today's Transactions Ferver 150 300 600 1500 3000 15000 500 Send Up Send Load Request Config Get Totals Reset State Clear Caution Status Disconnect	100	Ca Details	Server	40	80	200	400			\$16,006.00
	101	Cc Send Up Send Down Send Load Request Config Get Totals Reset State Clear Caution Status Disconnect	Server	150	300	600	1500	3000	15000	\$900.00

4. A new dialog window will open displaying all the devices transactions for the day. Screen shown below.

Date	Dev ID	Status	Err Code	Tran Cd	Card #	receipt_nbr	Amt Reg	Amt Auth	C
/9/2008 9:18:05 AM	100	11	604	WDL	1547725287		216.60	0.60	
1/9/2008 9:17:13 AM	100	12	0	WDL	1547715272		33.50		1
1/9/2008 9:14:39 AM	100	12	0	WDL	1547705288		93.60	93.60	
1/9/2008 9:11:55 AM	100	12	0	WDL	1547695281		45.40	<mark>45.4</mark> 0	
1/9/2008 9:09:30 AM	100	12	0	WDL	1547685295		117.90	117.90	
1/9/2008 9:08:02 AM	100	12	0	WDL	1547675285		45.00	45.00	
1/9/2008 8:58:36 AM	100	12	0	WDL	1547665284		243.00	243.00	
1/9/2008 8:56:14 AM	100	12	0	WDL	1547655209		298.80	298.80	
1/9/2008 8:43:29 AM	100	12	0	WDL	1547625270		9.00	9.00	
1/9/2008 8:43:08 AM	100	12	0	WDL	1547615288		68.40	68.40	
1/9/2008 8:37:58 AM	100	12	0	WDL	1547605281		215.95	215.95	
1/9/2008 8:32:10 AM	100	12	0	WDL	1547595286		36.00	36.00	
1/9/2008 8:22:59 AM	100	12	0	WDL	1547585283		140.40	140.40	
1/9/2008 8:21:05 AM	100	12	0	WDL	1547565282		219.60	219.60	
1/9/2008 8:19:07 AM	100	12	0	WDL	1547555288		43.80	43.80	
1/9/2008 8:16:58 AM	100	12	0	WDL	1547545287		133.80	133.80	

- 5. In this example, note that the Total Requested \$216.60 and the Amt Authorized \$.60 do not match for this transaction. Also note in the Status column the result code is different than the other transactions before and after.
- 6. Double click the Status code to get more information as shown below.

This indicate:	s an authorized tra	ansaction that has	s not yet gotten a	response from the ATM
)r dispenser	to indicate succe	ss or failure of the	e dispense.	

7. Now double click the Error code to get even more information, as shown below.



- 8. From these two messages, it is likely that the dispenser may be out of one or more currencies. In order to determine which currencies the ATM is out of, we need to go back to the **Devices** window.
- 9. Close the Error Code, Status Code and Transactions windows. Devices window shown below.

🥖 Cash	Dispensers and A	\TMs								
⊻iew										
De	Description	State	Bills in 1	Bills in 2	Bills in 3	Bills in 4	Bills in 5	Bills in 6	Remain	
X 100	Cash dispenser	Offline	100	100	100	100	0		7,600.00	
X 101	Coin dispenser	Offline	0	0	0	0	0	0	0.00	
-									-	
A Pr	int									Close
Double-clic	k a dispenser for statu	us bistory								

10. Double click on the desired Device ID and the following window will appear.

🕖 Sta	atus history	for device 100	D	
Status	ses Cassett	es Totals		
	Device ID	100		
	State	Ready; check st	atuses.	
L	Description	Cash Dispenser		
C	assettes			
	Cassette	Denom	Status	
ľ	1	\$100.00	OK	
	2	\$50.00	OK	
	3	\$20.00	OK	
	4	\$10.00	OK	
	5	\$5.00	Low	
	6	\$1.00	Empty	
L L				
	Close	Pefrech		
	0000	Konesii		

11. Click on the **Statuses** tab. Screen shown below.

ATM Details for	device 1	00		_ 🗆 🔀
Current Info Statuses	Hardwa	re Supplies Fitness Totals		
Date/Time	Status	Description	Raw Data	^
1/9/2008 9:21:56 AM	9012	Cassette 6 out of notes.		
1/9/2008 9:20:53 AM	9014	Cassette 6 low on notes.		
1/9/2008 9:20:53 AM	0018	Cassette 2 low on notes.		
1/9/2008 8:17:34 AM	9012	Cassette 6 out of notes.		
1/9/2008 7:09:14 AM	9014	Cassette 6 low on notes.		
1/9/2008 7:09:13 AM	0018	Cassette 2 low on notes.		
1/8/2008 4:07:21 PM	9012	Cassette 6 out of notes.		
1/8/2008 3:53:09 PM	9014	Cassette 6 low on notes.		
1/8/2008 3:53:09 PM	0018	Cassette 2 low on notes.		
1/8/2008 3:52:22 PM	9013	Cassette 5 low on notes.		
1/8/2008 3:52:22 PM	0012	Cassette 1 low on notes.		
1/8/2008 3:52:19 PM	9002	Reject cassette problem.		
1/8/2008 3:47:09 PM	9014	Cassette 6 low on notes.		
1/8/2008 3:47:09 PM	0018	Cassette 2 low on notes.		
1/8/2008 2:48:12 PM	9014	Cassette 6 low on notes.		
1/8/2008 2:48:12 PM	0018	Cassette 2 low on notes.		
				~
Close	lefresh			

12. The Statuses for this device indicate that Cassette 6 is out of notes and Cassette 2 is low on notes. It is time to replenish the cash dispenser.

Devices Interface

Run the EZCash Monitor.

From the EZCash Monitor's Main Menu, select the **Devices** button as shown below.



Connected to NDC server.

A new dialog window will open. In this window all the ATM and Cash Dispensers on your network will be displayed as shown below.

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N N									نے بے
ev <mark>I</mark> D	Description	State	Bills in 1	Bills in 2	Bills in 3	Bills in 4	Bills in 5	Bills in 6	Remaining
100	Cash dispenser	Unknown	40	80	200	400			\$16,006.00
101	Coin dispenser	Unknown	150	300	600	1500	3000	15000	\$900.00
Print P									Close

If you double click on one of the devices the ATM Details window will open with the following available tabs.

Current Info

The current info tab displays the current state of the device along with the denomination and status of each cassette in the device. Screen shot shown below.

Statuses Hardware Supplies Fitness Totals Device ID 100 State Unknown Description Cash dispenser Cassette Denom Status 1 \$100.00 OK 2 \$50.00 OK 3 \$20.00 OK 3 \$50.00 OK 5 \$5.00 OK 6 \$1.00 OK	
Device ID 100 State Unknown Description Cassettes Cassette Denom Status 1 \$100.00 OK 2 \$50.00 OK 3 \$20.00 OK 4 \$10.00 OK 5 \$5.00 OK 6 \$1.00 OK	
State Unknown Description Cassettes Cassette Denom Status 1 \$100.00 OK 2 \$50.00 OK 3 \$20.00 OK 4 \$10.00 OK 5 \$5.00 OK 6 \$1.00 OK	
State Dispenser Cassettes Cassette Denom Status 1 \$100.00 OK 2 \$50.00 OK 3 \$20.00 OK 4 \$10.00 OK 5 \$5.00 OK 6 \$1.00 OK	
Cassette Denom Status 1 \$100.00 OK 2 \$50.00 OK 3 \$20.00 OK 4 \$10.00 OK 5 \$5.00 OK 6 \$1.00 OK	
Cassette Denom Status 1 \$100.00 OK 2 \$50.00 OK 3 \$20.00 OK 4 \$10.00 OK 5 \$5.00 OK 6 \$1.00 OK	
Cassette Denom Status 1 \$100.00 OK 2 \$50.00 OK 3 \$20.00 OK 4 \$10.00 OK 5 \$5.00 OK 6 \$1.00 OK	
1 \$100.00 OK 2 \$50.00 OK 3 \$20.00 OK 4 \$10.00 OK 5 \$5.00 OK 6 \$1.00 OK	
2 \$50.00 OK 3 \$20.00 OK 4 \$10.00 OK 5 \$5.00 OK 6 \$1.00 OK	
3 \$20.00 OK 4 \$10.00 OK 5 \$5.00 OK 6 \$1.00 OK	
5 \$5.00 OK 6 \$1.00 OK	
6 \$1.00 OK	
Close	

Statuses

The statuses tab displays any status codes reported by the device along with a description of the code. By default the last 14 days will be displayed. Just click on the "Show All" button to view prior dates. Screen shot shown below.

🧧 ATM Details for de	vice 102							
Current Info Statuses	Hardwar	e Supplies Fitness Totals						
Date/Time	Status	Description	Raw Data	-				
9/8/2008 3:26:33 PM	1113	Communcations Restored.						
9/8/2008 3:26:25 PM	1112	Communcations lost.						
9/8/2008 2:49:59 PM	1001	Unknown unsolicited status message type.	22					
9/8/2008 2:49:58 PM	1101	Load Completed.						
9/8/2008 2:49:53 PM	1100	Load Begun.						
9/8/2008 2:49:53 PM	1002	Power interruption.	B0000					
9/8/2008 2:49:45 PM 1113 Communications Restored.								
9/8/2008 2:48:37 PM	1100	Load Begun.						
8/25/2008 1:53:37 PM	1112	Communcations lost.						
8/25/2008 1:52:41 PM	1051	Supervisor mode entry.	P21					
				,				
Showing last 14 days. C	ick 'Show A	Il' to show all statuses, Show All						
Close R	efresh							

Hardware

The hardware tab displays and gives a description of the items installed in the device. Screen shot shown below.

ATM Details for device 10	3							
Current Info Statuses Hardwa	are Supplies Fitness Totals							
Last updated: 2008-09-03 11:05	Last updated: 2008-09-03 11:05:08 Raw string: 257f000101000201000000001010202107f7f00							
Item	Description							
Product dass Magnetic Card Reader/Writer Cash Handler Depository Receipt Printer Journal Printer Night Safe Depository Encryptor Security Camera Door Access Flex Disk Tamper Indicating Bins Cardholder Keyboard Operator Keyboard Statement Printer	Unknown dass: 25 Track2 Configured Black Dot Paper Integral journal printer Not Configured Not Configured Not Configured 1.44 MB Secure cash, insecure cards, insecure or no PPD EKC Keyboard Keyboard plus FDKs (Enhanced) Not configured							
Close								

Supplies

The supplies tab lists items in the device which require commodities. The description field will inform you if any of the items require attention or if the commodity is low. Screen shot shown below.

📱 ATM Deta	ils for de	vice 103							_ 🗆 🗙
Current Info	Statuses	Hardware	Supplies	Fitness	Totals				
Last updated: 2008-09-03 11:05:08						Raw string: 000110110000	000021210000		
Item		De	escription						
Card Capture Reject Bin Deposit Bin Receipt Pape Journal Pape Night Safe Type 1 Curre Type 2 Curre Type 3 Curre Type 4 Curre	e Bin er ency ency ency ency ency	Gi Gi Gi Gi Gi La Gi Gi Gi Gi Gi Gi Gi Gi Gi Gi Gi Gi Gi	ood ood oot Configure ood oot Configure w ood w ood	ed ed					
Statement R	ibbon	No	ot Configure	ed					

Fitness

The fitness tab displays hardware items and a status of each item as reported by the device. Screen shot shown below.

1	ATM Details for devic	e 103					<u>_ 0 ×</u>
Cur	rrent Info Statuses H	lardware Supplies	Fitness	Totals			
Las	t updated: 2008-09-03 1	11:05:08			Raw string: 00000000000	000000000	
Ite	em	Description					
Tin	ne-of-Day Clock	OK					
Hig	gh Order Communication	s OK					
Sy Sy	stem Disk	OK					
Ca	rd reader	OK					
Ca	ish Handler	OK					
De	pository	OK					
Re	ceipt Printer	OK					
]]o	urnal Printer	OK					
Nig	ght Safe Depository	OK					
En En	cryptor	OK					
	Close						

Totals

The totals tab gives detailed information about each cash cassette in the device. The detailed information reports terminal and host statistics that include the start count, any currency that was added, currency dispensed, and currency remaining. Screen shot shown below.

Current Info	Statuses	Hardware Su	pplies F	itness Totals					
ast updated	9/3/08 12:0	3:29			10				
Cannister #	Denom	Start Count	Added	Term Disp	Host Disp	Term Remain	Host Remain	Term Remain \$	Host Remain \$
1	100.00	30	10	50	0	-10	40	(\$1,000.00)	\$4,000.00
2	50.00	60	20	66	0	14	80	\$700.00	\$4,000.00
3	20.00	150	50	481	0	-281	200	(\$5,620.00)	\$4,000.00
1	10.00	300	100	151	0	249	400	\$2,490.00	\$4,000.00
5	5.00	1	0	0	0	1	1	\$5.00	\$5.00
5	1.00	1	0	0	0	1	1	\$1.00	\$1.00
otals		\$12,006.00	\$4,0	\$19,43	\$0.00			(\$3,424.00)	\$16,006.00
Close									

Transactions Interface

Run the EZCash Monitor.

From the EZCash Monitor's Main Menu, select the **Transactions** button as shown below.

Ø EZO	Cash Monitor 📃 🗖 🖻	<
File		
	Devices	
	Transactions	
	Accounts	
Connect	ed to NDC server.	

This will open the transactions interface window. The transactions interface will allow you to run daily reports by day or date range, run balancing reports, and create custom reports based on the devices activity. The following tabs will be available.

Date Range

From the date range tab you can select any date range you wish and view summaries for one or more days. To view the detailed transaction report for your selections, simply press the **Details** button. The daily summary and transaction reports should balance with your scale purchasing system. Screen shot shown below.

) Tra	nsac	tion	s													
Date F	lang	B	alanc	ing	Cus	tom Q	uery	Que	ery R	esult	s					
<	S	epte	mber	, 200	8	Þ		<	S	epte	mber	, 200	8	>		
Sun	Mon	Tue	Wed	Thu	Fri	Sat		Sun	Mon	Tue	Wed	Thu	Fri	Sat		
	1	2	3	4	5	6			1	2	3	4	5	6		
14	8	9	10	11	12	13		14	8	9	10	11	12	13		
21	22	23	24	25	26	27		21	22	23	24	25	26	27		
28	29	30						28	29	30						
	Tod	ay: 9/	3/20	08					Tod	ay: 9	3/200	08				
🗹 Li	mit q	uery	to sp	ecific	devi	ce ID	100): Ca	sh di	spen	ser			~		
S	umm	nary	1		Des	criptio	n						Val			
	_	_														
	Deta	ils														
	-															
	Prin	nt														
														-		_
															CI	lose

Balancing

From the balancing tab you can view the details of the devices balancing cycles. From this screen you can also view the **Replenish Details, Transaction Details, Type 11 Details** (transactions with errors) within this balance cycle by selecting the appropriate button. The balance cycle totals should match with your bank settlements. Screen shot shown below.

e Range Ba	lancing	Custom Query Qu	iery Results	
Device	100: Cas	h dispenser	Start Date 2	008-08-04
ycle periods	(click to vie	ew detail)	Print Replenish Detail.	Transaction Detail Type 11 Detail
Start Date		End Date	Description	Val

Custom Query

From the custom query tab you can choose fields from the drop down list to build custom reports. A screen shot and the available fields to choose from are shown below.

ale ru	ange Balancing v	Justom	Query Result		
Field		~	Equals	×	
Field	Amt Auth Amt Reg	^		~	
Field	Bank ID Card #	=		~	
Field	Cass 1 Cass 2			▼	
ield	Cass 3 Cass 4	~		✓	
Field	00004	~		~	

Field	Description
Amt Auth	Amount Authorized
Amt Req	Amount Requested
Bank ID	Bank ID
Card #	Card Number
Cass 1	Cassette 1
Cass 2	Cassette 2
Cass 3	Cassette 3
Cass 4	Cassette 4
Cass 5	Cassette 5
Cass 6	Cassette 6
Date	Date of Transaction
Dev ID	Device ID
Err Code	Error Code
Status	Status of Transaction
Track 2	Track 2
Tran Cd	Transaction Code

Once the field has been selected, the type of analysis must be selected. A screen shot and the available analysis types to choose from are shown below.

eld	×	Equals	
eld	~	Less than	
eld	~	Greater than or equal to	
eld	×	×	
eld	*	~	

Equals	Field =
Greater than	Field >
Less than	Field <
Not Equal to	Field <>
Greater than or equal to	Field >=
Less than or equal to	Field <=

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Once the field and test analysis has been selected, type the value you wish to test for in the last column. You may test up to a combination of 6 fields. Keep in mind that each field you are testing will further reduce the result set.

To execute the query, select the Run Query button in the bottom left of the panel as shown in screen shot below

ate Ra	ange Balancing	Custom	Query Query Res	sults		
Field	Tran Cd		Equals	~	12:34	
Field		~	Educio			
Field		~		~		
Field		~		~		
Field		~		~		
Field		~		~		

The results of the custom query will be displayed in the last tab under **Query Results**.

Query Results

The results of the custom queries will be shown under this tab. Screen shot shown below.

ate	Dev ID	Status	Err Code	Tran Cd	Card #	receipt_nbr	Amt Req	1	١m
			114					0.00	

Accounts Interface

Run the EZCash Monitor.

From the EZCash Monitor's Main Menu, select the Accounts button as shown below.

) EZ ile	Cash Mo	nitor		
	D	evice	\$	
	Trai	nsacti	ons	
	Ac	coun	ts	
	ted to ND(Conver		

This will open the accounts interface window. The accounts interface allows you to view and build reports that contain all the issued transaction requests generated by your scale purchasing system. This will include any outstanding requests that have not currently been paid by the ATM. Screen shown below.

🧭 Card Query Builder		_ 🗆 🔀
Date Range Custom Query Query R	esults	
Start Date	9/ 8/2008	
End Date	9/ 8/2008	
Limit query to specific device ID		
Summary		
Show only accounts with outstand	ing balance	
Details		
		Close

Replenish Wizard

The replenish wizard allows you to enter bill counts and start new balance cycles for you cash dispenser device.

Launch the EZCash wizard from the window's start button. Screen shown below.



Login window will be displayed. Enter username and password. User = administrator Password = admin Screen shot shown below.

Server Login	X
User Name	
Password	
Domain Name	(only required for Windows authentication)
	OK

The Welcome to the EZCash Replenish Wizard window will open. Click Next. Screen shot shown below.

Ø Replenish Wizard	<u> </u>
Welcome to the EZCash Replenish Wizard	
-than Jact	
Transact Payment Systems, Inc.	
1125 81st Street South St. Petersburg, FL 33707	
Phone: (727) 894-5035	
FAX: (727) 214-9908	
< Back Next >	Cancel

The current cash counts in the device will be displayed. Click Next. Screen shot shown below.

🕖 Replenish 1	Wizard								_	
			Rep	Currer orts are	nt Cash e about	Counts t to be p	rinted			
Cappister #	Denom	Start Count	Added	Term Disp	Host Disp	Term Remain	Host Remain	Term Remain \$	Host Remain \$	
1 2 3 4 5 6 Totals	100.00 50.00 20.00 10.00 5.00 1.00	500 500 500 500 500				500 500 500 500 500 500	500 500 500 500 500	50,000 25,000 10,000 5,000 2,500 93,000 93,000	50,000 25,000 10,000 5,000 2,500 500 93,000	
				< Bac	k Nex	(t >			Cance	:

You will be prompted to print the current report. Select you desired printer and click OK. Screen shot shown below.

annister #	Denom Sta 100.00 50.00 20.00 10.00 5.00 1.00	Print Print Art C S0 S0 S0 S0 S0 S0 S0 Con	er ne: Inp LasenJet 1320 PCL 5e tus: Ready e: hp LasenJet 1320 PCL 5e ere: PS0C151D_P1 mment:	<u> </u>	Properties	main \$ 50,000 25,000 0,000 5,000 2,500 5,000 2,500	Host Remain \$ 50,000 25,000 10,000 5,000 2,500 5,000
itals		Print C C	range All Pages from: to: Selection	Copies Number of copie 11 22	es: 1 3 Collate	\$3,000	93,000
						_	

You will now be asked whether you would like to Add Cash or Clear Totals and Start a new Balance Cycle. Make your selection and click Next. Screen shot shown below.

🖉 Replenish Wizard			
	What would you like to do?		
]	
	C Add Cash		
	C Clear Totals and Start a new Balance Cycle		
	< Back Next >	Cance	

Each cassette will now be displayed on the current window. Enter the number of notes you are inserting in each cassette (the \$ Amount will automatically be displayed based on the number of notes and the cassette's denomination). Click Next. Screen shot shown below.

🖉 Replenish Wizard			
Cassette	# of Notes	\$ Amount	
1 (\$100.00	s) 500	50000	
2 (\$50.00's) 500	25000	
3 (\$20.00's) 500	10000	
4 (\$10.00's) 500	5000	
5 (\$5.00's)	500	2500	
6 (\$1.00's)	500	500	
		\$93,000.00	
	(Deal) Marks	1	
	< Back Next >		Cancel

The screen will display the counts that were just entered. Press Finish to Commit Replenish. Click Finish. Screen shot shown below.

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Press I	-inish to Coi	nmit Repl	enish.	
Device	Cassette	# of Bills	\$ Amount	
CASH	1 (\$100.00's)	500	\$50,000.00	
CASH	2 (\$50.00's)	500	\$25,000.00	
CASH	3 (\$20.00's)	500	\$10,000.00	
CASH	4 (\$10.00's)	500	\$5,000.00	
CASH	5 (\$5.00's)	500	\$2,500.00	
CASH	6 (\$1.00's)	500	\$500.00	
			\$93,000.00	

You will be prompted to print the replenish report. Select your desired printer and press OK. Screen shot shown below.

Pri	it ?×	
	Printer Name: hp Lasextlet 1320 PCL 5e Properties Status: Ready Type: hp Laserd et 1320 PCL 5e Where: PS0C151D_P1 Comment:	
	Print range Copies • All Number of copies: • Pages from: to: • Selection 1 2 3 3 Collete OK Cancel	

That completes the replenishment process. Current bill counts can now be viewed in real time using the Devices Interface.

Change Password

Run the EZCash Monitor.

From the EZCash Monitor's Main Menu, select File and then select change password. Screen shown below

💋 EZCash Monitor	
File	
Log In	1
Change Password	
Settings	
Exit	
Iransactio	ns
Accounts	5
Error 10061 on NDC connecti	

You will be prompted to enter your old password. Enter your current password and press OK. Enter and confirm your new password.

Transaction Result Codes

The status of a transaction is defined in the following table:

Status	Description	Explanation
10	New request	This status indicates a transaction is being processed. If it stays a type 10, there was a problem during processing.
11	Authorized	This indicates an authorized transaction that has not yet gotten a response from the ATM or dispenser to indicate success or failure of the dispense.
12	Completed	This is an authorized transaction that the dispenser has indicated was a successful dispense.
13	Void	The transaction failed. Some or all of the amount requested could not be dispensed. See the error_code for more detail.
15	Reversed	The transaction was authorized, but the dispenser or ATM could not dispense some or all of the cash. See the error_code for more detail.