



Morphis Enterprise Cash Management
Morphis•M1

ABOUT OUR WORK

Today Morphis products are in use across the currency logistics spectrum – central banks, commercial banks, armored carriers, ATM/BTM operators and retailers.

COMPANY STATISTICS



37 Cash Centers



100M Transactions
Per Year



250,000 Cash Points



5+ Countries



10B Currency Per Day



20+ Years of privacy
and security for
all clients



World Class Currency Supply Chain Solutions

Morphis Suite of Software



**Customer Relationship
Management [CORE]**



**Cash Management
Forecasting [CM]**



**Enterprise Cash
Management [M1]**



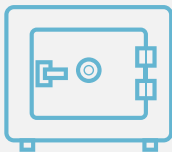
**Field Service
Command Center [SC]**



**Morphis Optimized
Vehicle Routing
[MOVR]**



**Armored Car Manager
[ACM]**



SmartSafe Manager



**Cash In Kiosk Manager
[CKM]**



Reporting Dashboards

What is Cash Visibility (CV)?

A multi-year, multi-phase joint industry initiative aimed at bringing greater transparency and efficiency to cash supply chain logistics by developing a framework that will identify, track, and share data about cash packages as they move between cash supply chain organizations.

Using supply chain logistics standards and concepts, the Cash Product Office (CPO), Cash Advisory Group (CAG), Cash Advisory Council (CAC), and GS1 US developed CV data standards that will incorporate the use of scanning technologies with cash shipments to enable significant improvements in cash handling. **These improvements will reduce manual data entry by replacing paper-based manifests with electronic manifests.**

The Opaque Current State

When consumers receive currency notes as change, behind that simple transaction is an intricate network supporting the distribution of cash, better known as the **“cash supply chain.”** In the U.S., we continue to rely on paper and physical signatures to document cash package transfers between the supply chain participants. These transactions take longer and have potential for human error.



What is e-Manifest?

e-Manifest is the Federal Reserve's service product for how Federal Reserve Banks will electronically process deposits and payments with industry partners by using industry supported data standards.

Easy Steps to Get Ready for e-Manifest

Step 1: Contact the Fed to get started

Step 2: Identify your supply chain partners

(financial institutions, armored carriers, service providers, cash bag suppliers, etc.)

Step 3: Work with GS1 US to create your GS1 Company Prefix



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Enterprise Banking Solutions

Rationalizes and optimizes currency and coin, by denomination, across your banking enterprise combining the functionality required to manage your ATM fleet, branch network and off-site locations.

01

Divides the cash management process into two steps: Forecasting and Decision making.

02

Analyzes historical deposit and withdrawal transaction activity and forecasts future deposit and withdrawal activity.

03

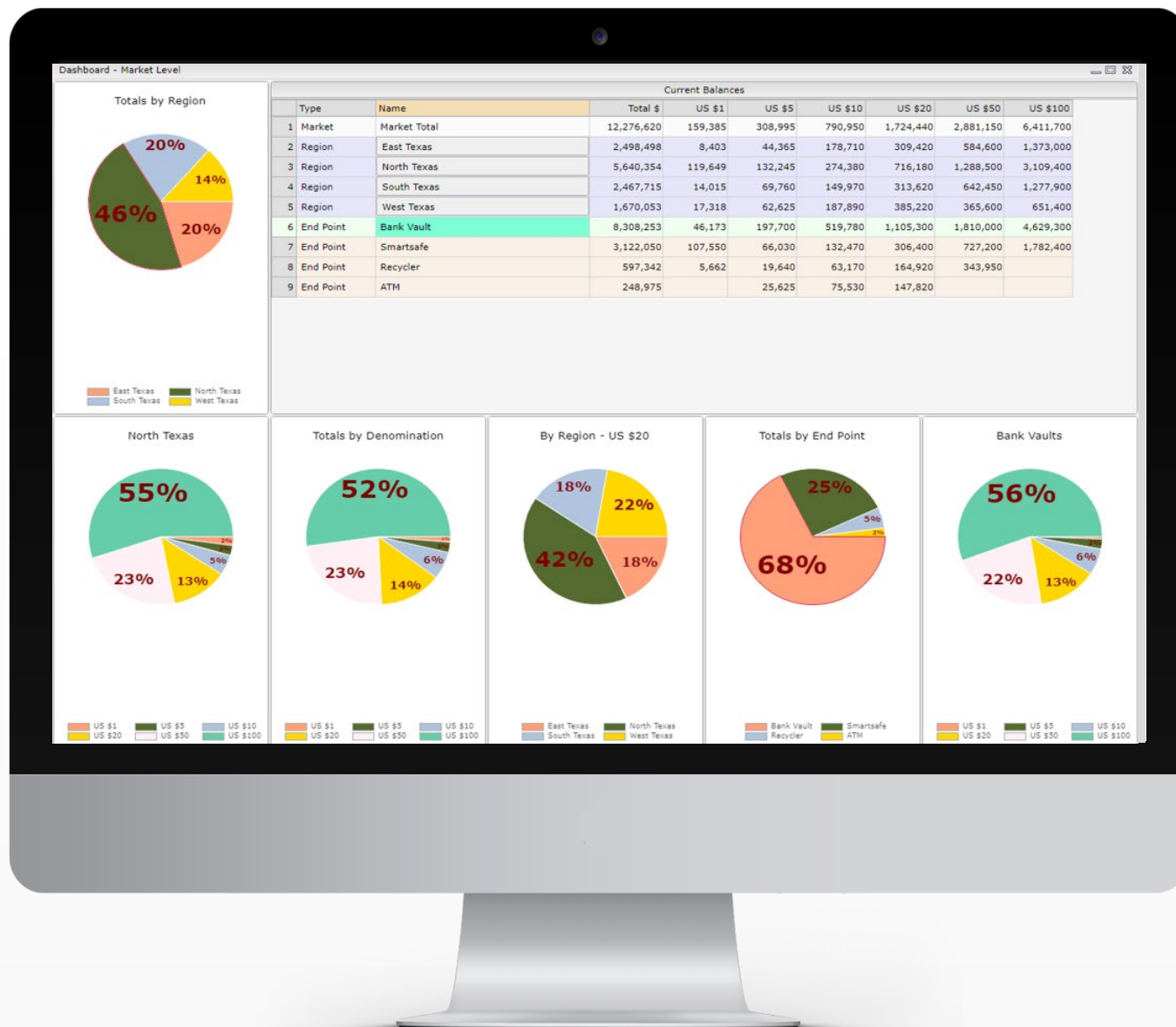
Compares current inventories to projected “Net Demand,” considering Upper & Lower inventory Bounds (operating and physical capacity limits,) Cash-in-Transit schedules, Cash-in-Transit costs, and other real-world constraints.

04

Produces cash orders dramatically reducing workflow processes and cash inventories.

05

Communicates orders directly to funding and logistics by communicating order to FedLine® and your CIT/Vault Processing Provider



Morphis•M1 Dashboard

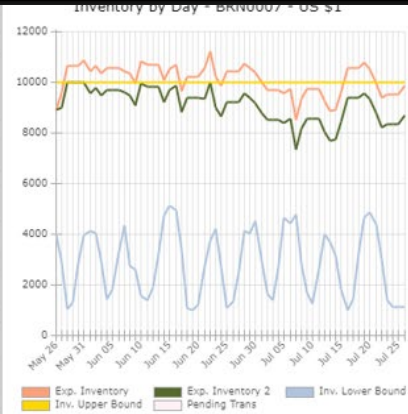
MARKET LEVEL VIEW



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BRANCH LEVEL VIEW

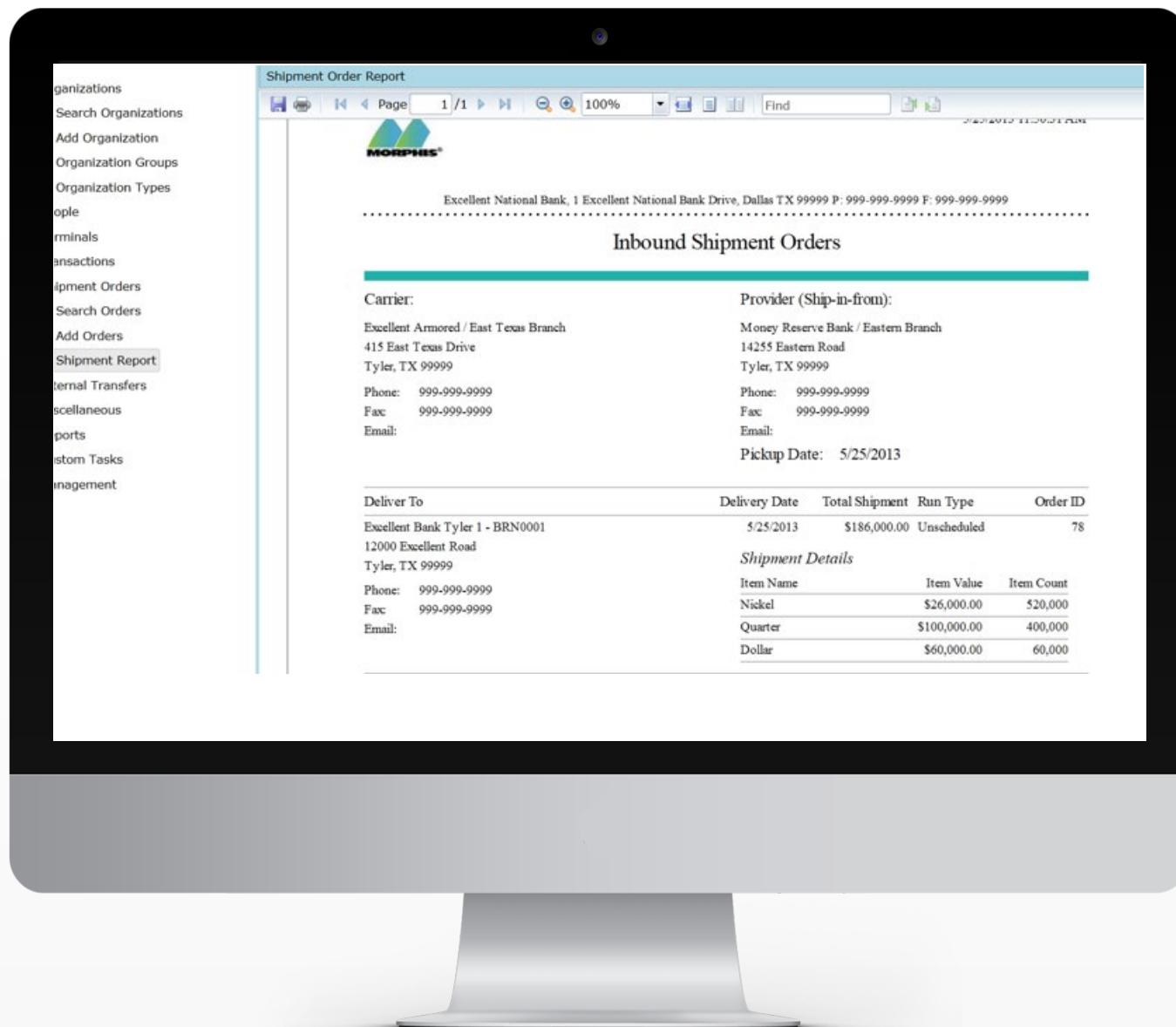
	Terminal	ItemSize	TrmType	Balance	ShipInDate	ShipInQty	ShipOutDate	ShipOutQty	RunFromDate	RunToDate
1	BRN0007	1	Bank Branch	8,753			5/27/2021	613		5/27/2021
2	BRN0007	5	Bank Branch	27,415						
3	BRN0007	10	Bank Branch	64,200						
4	BRN0007	20	Bank Branch	144,240						
5	BRN0007	50	Bank Branch	201,050	5/26/2021	30,400			5/26/2021	
6	BRN0007	100	Bank Branch	421,500	5/26/2021	79,700			5/26/2021	
7	ATM0013	5	ATM	2,935	5/27/2021	1,330			5/27/2021	
8	ATM0013	10	ATM	8,030	5/26/2021	1,360			5/26/2021	
9	ATM0013	20	ATM	11,820	5/26/2021	14,040			5/26/2021	
10	REC0009	1	Recycler	702						
11	REC0009	5	Recycler	2,060	5/27/2021	115			5/27/2021	
12	REC0009	10	Recycler	5,120	5/27/2021	180			5/27/2021	
13	REC0009	20	Recycler	15,600	5/26/2021	1,120			5/26/2021	
14	REC0009	50	Recycler	35,800	5/27/2021	13,350			5/27/2021	



BRN0007 - US \$1 - Expected Activities														
	TransDate	ExpWdrIs	ExpDeps	InExpWdrIs	InExpDeps	PenWdrIs	PenDeps	ExpBal	ExpTxnIn	ExpTxnOut	ExpBal2	MaxInv	IUBound	ILBound
1	5/26/2021	1,134	1,257					8,876			8,876	10,000	10,000	3,985
2	5/27/2021	1,824	2,525					9,577		613	8,964	10,000	10,000	2,851
3	5/28/2021	1,027	2,063					10,613			10,000	10,000	10,000	1,027
4	5/29/2021	0	0					10,613			10,000	10,000	10,000	1,285
5	5/30/2021	0	0					10,613			10,000	10,000	10,000	2,836
6	5/31/2021	1,285	1,525					10,853		240	10,000	10,000	10,000	3,946
7	6/1/2021	1,551	1,098					10,400			9,547	10,000	10,000	4,129
8	6/2/2021	1,110	1,324					10,614			9,761	10,000	10,000	4,004
9	6/3/2021	1,468	1,172					10,318			9,465	10,000	10,000	2,894
10	6/4/2021	1,426	1,654					10,546			9,693	10,000	10,000	1,426
11	6/5/2021	0	0					10,546			9,693	10,000	10,000	1,821

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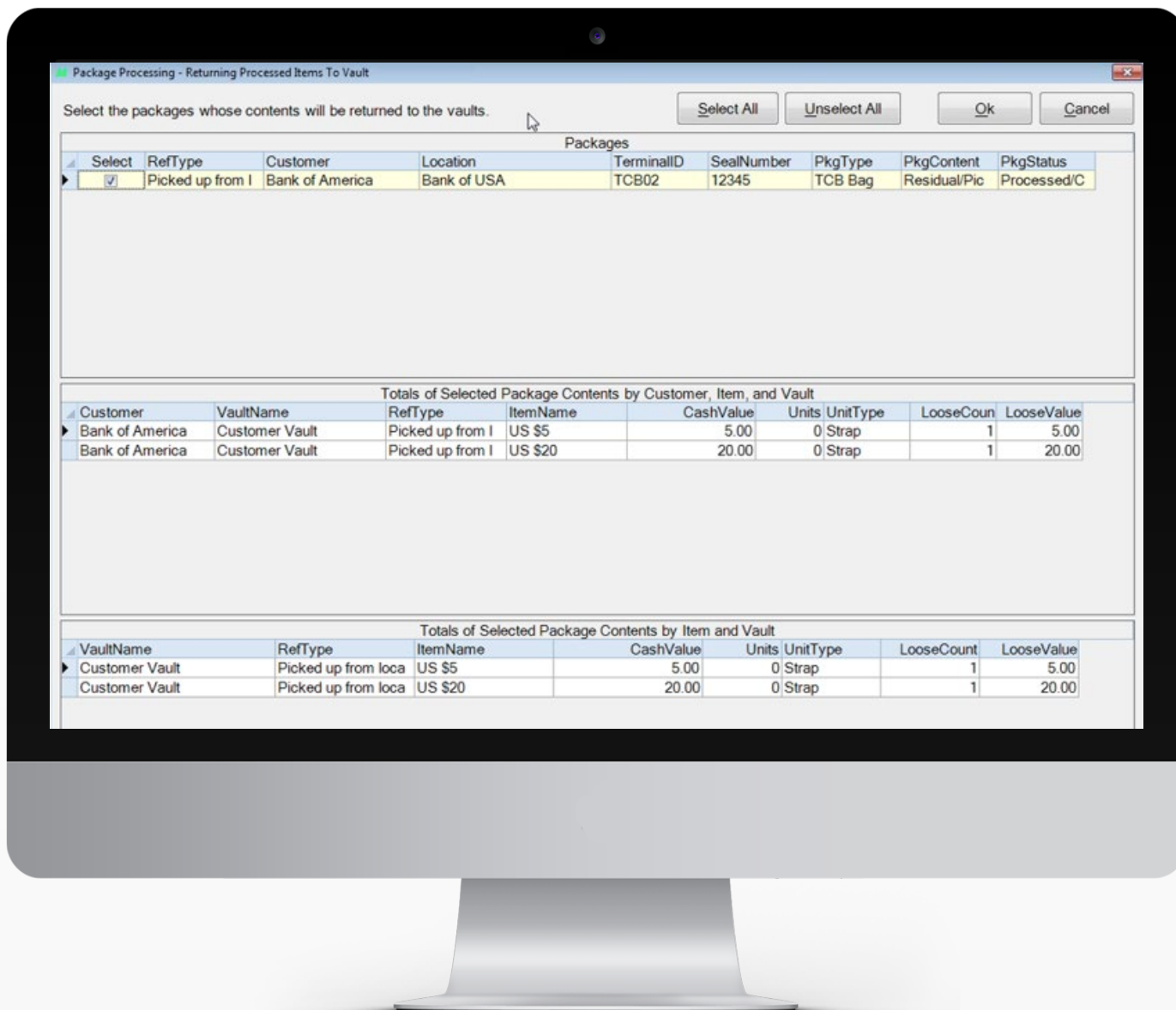
FORECAST DETAILS



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ORDER DETAILS

The orders are sent via FedLine WEB and the instructions to the CIT.



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ON BOARD DETAILS

Track and Trace of package locations at all times. Fulfillment of order with signatures is sent via mTrack.

Actual Package Contents - USDollar

Package: FS54321

Location: McDonalds - 10 Airport Blvd, Pensacola, FL 32505 - TCBL#0000193 - ABC BANK

Envelope:

Item Type: USDollar

Declared Total Value: 12,352.00

Actual Total Value: 12,352

Difference: 0

Declared Total Weight:

Actual Total Weight:

Difference:

Ok

Postpone

Counter

Actual Items Counted/Processed

ItemName	Code	LooseCnt	LooseValue	UnitCnt	UnitType	UnitsTotalA	FakeVal	UnitsTotalE	GrandTotal	Declared	Difference
Mutilated											
One		52	52						52		
Two											
Five		70	350						350		
Ten		95	950						950		
Twenty		550	11,000						11,000		
Fifty											
Hundred											

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DEPOSIT DETAILS

All package contents are accounted for throughout the supply chain.

Vault Check-in Report

Vault: ABC Activity Date: 5/28/2021 Check-in Date: 5/28/2021
Branch: A - Pensacola Check-in By: Debra Miller

Customer: ABC BANK

Item Type: US Dollar Ref. Type: Picked up from location (TCB)
Category: Default Usage Return ID: 86

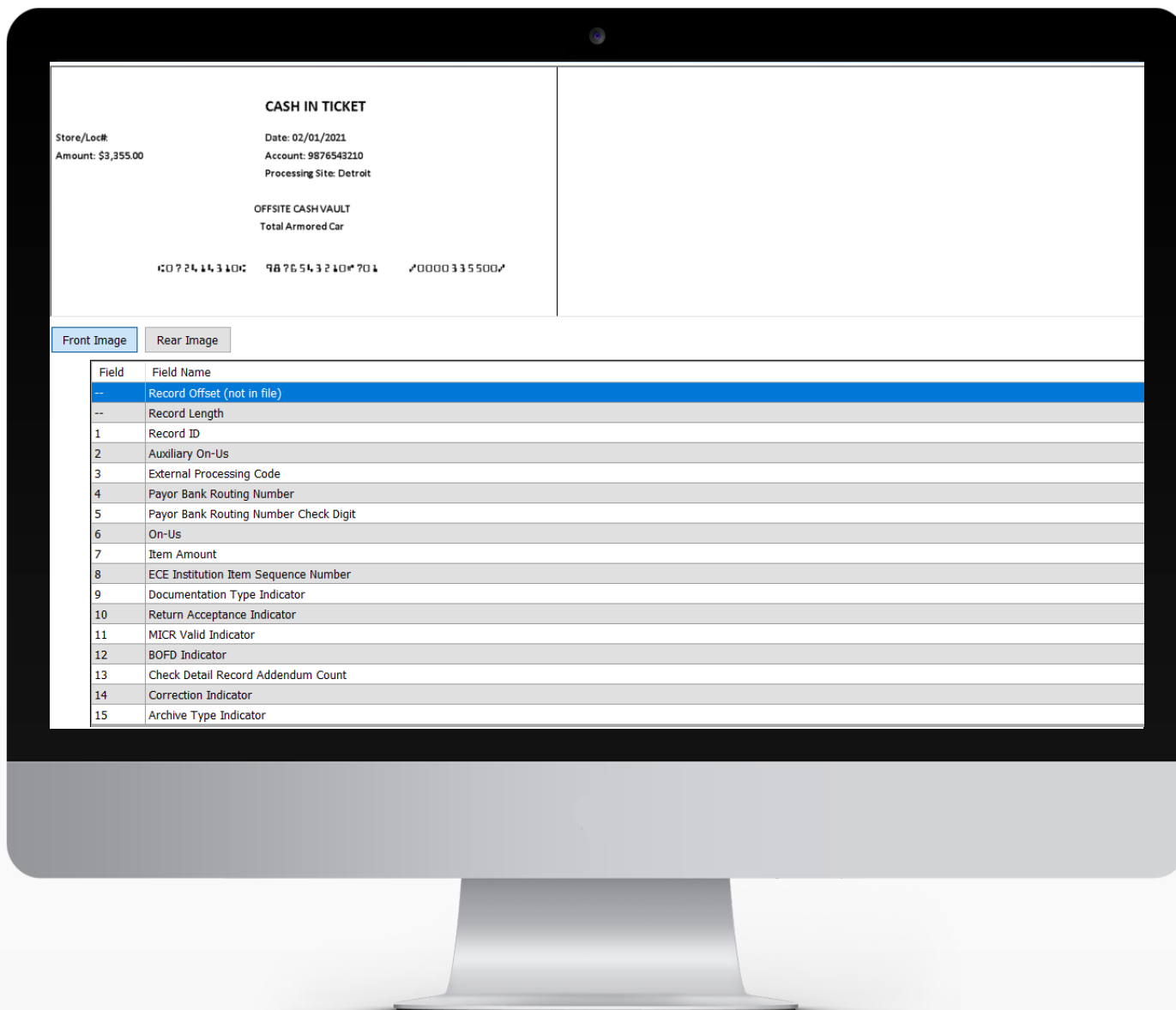
Item Name	Item Size	Cash Value	Units	Loose Value	Weight
One	1.00	\$3.00	0 Strap	\$3.00	
Five	5.00	\$80.00	0 Strap	\$80.00	
Ten	10.00	\$140.00	0 Strap	\$140.00	
Twenty	20.00	\$960.00	0 Strap	\$960.00	
Totals:		\$1,183.00		\$1,183.00	

Package Processing - Check into Vault											
Filter Criteria											
Branch Name: <div>A - Pensacola</div>		Customer Name: <div></div>									
Process Date: <div>5/28/2021</div>		Vault Name: <div></div>									
Pkg. Processor: <div></div>		Activity Date: <div></div>									
Package Processing Records											
ReturnID	VaultName	PkgProcessor	Customer	RefType	ActivityDate	ItemType	Category	TotalValueOrCount	OverShort	Select	Comment
85	ABC	Debra Miller	ABC BANK	Picked up from location (TC)	4/26/2021	USDollar	Default Usage	\$1,200.00		<input checked="" type="checkbox"/>	
86	ABC	Debra Miller	ABC BANK	Picked up from location (TC)	5/28/2021	USDollar	Default Usage	\$1,183.00		<input type="checkbox"/>	

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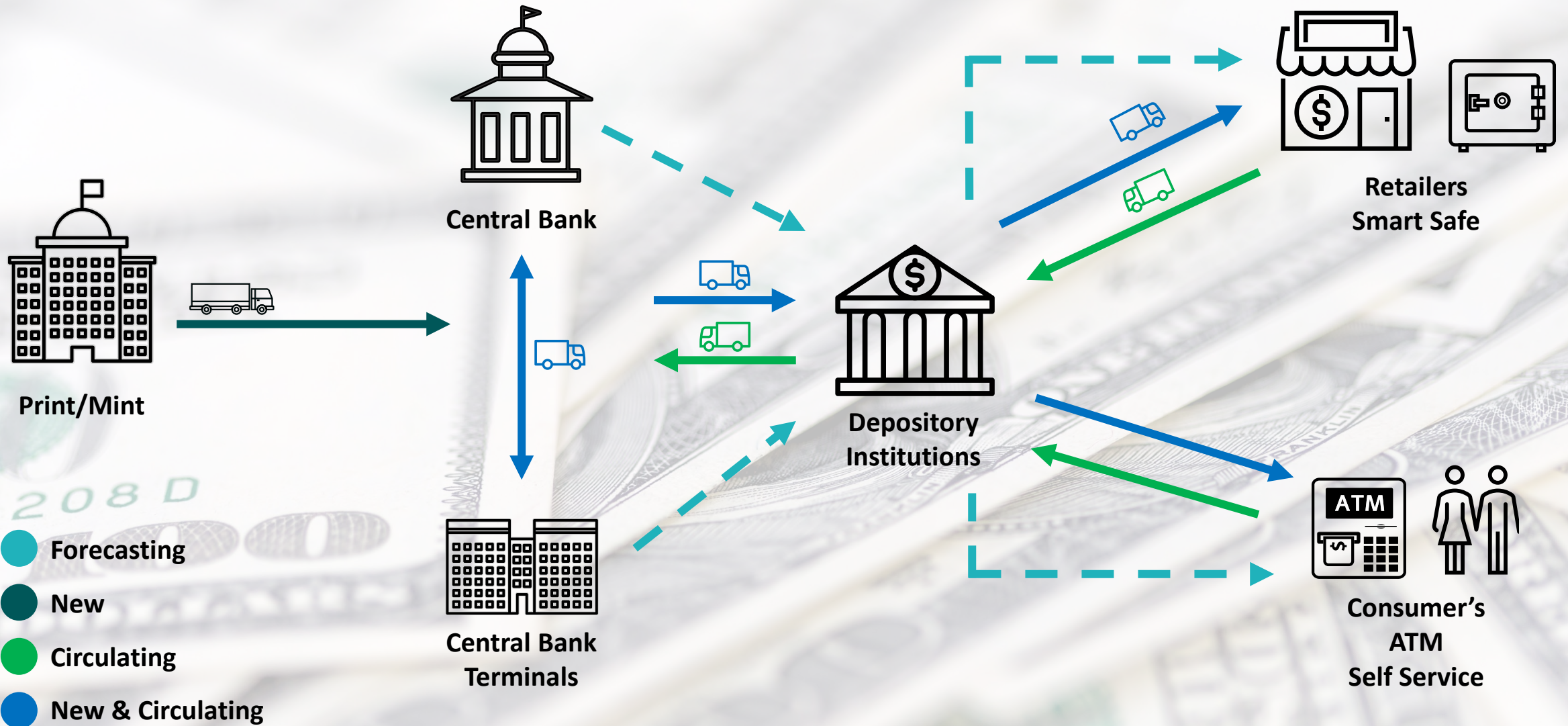
RECONCILE DETAILS

All vault activities are accounted for and reported.



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GL ENTRIES WITH X9 INTEGRATION





GET IN TOUCH

with Morphis

If you want to see how Morphis can speed up your business, reduce your costs, and improve customer satisfaction please reach out.



[Book a Demo](#)



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www.morphisinc.com