# Portal TI+®

## **Owners Manual**



## Unitec 443-561-1200• www.StartwithUnitec.com



## PORTAL TI+® OWNERS MANUAL

This manual describes the functions of the Portal Ti entry system running the Sierra software platform. If further assistance is needed, please contact the distributor from which the Portal was purchased.

When calling for assistance, you must have the following information available:

Portal Serial Number:

Distributor Name:

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Software Version	Rev	Release Date	Changes Made						
1.74 Sierra		5/2015	Changed available wash packages from 4 to 8 per wash type, added Verifone wash packages to credit setup, added various big fixes.						
4.43 Portal 1.73 Sierra		9/2014	Changed OS from Windows NT to Windows 7 POS Ready. Added support for card redemption for discounts, added accounting report for console printer, added support for barcode redemption for fleet and prepaid accounts, added Site Lynx code service, added batch management functions for credit modems, added multi-site account (shared payment) features, added POS code interface in external server mode, added automatic reboots to device profiles, and added prize promos to promotions.						
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3.12 Portal 1.12 Sierra		9/2009	Initial Release						





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The Car Wash Starts Here



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## 1 Introduction

The Portal TI is car wash payment system that is designed to work at any in-bay automatic or conveyor and works well for the express exterior car wash. This Owner's Manual describes the programming features and provides information on daily operations and recommended maintenance.

For detailed information on how to install the Portal and for networking information, please see the *Portal TI Installation Manual*. For detailed information on how to program the Portal, please see the *Sierra Management Application Operations Manual*. All of these manuals are available on the manufacturer's website: <u>www.StartwithUnitec.com</u>

## 2 Login

The Sierra Management Application is used for programming the system operating parameters, viewing and printing reports, and managing house accounts and car wash promotions. A PC with a standard WEB browser is required to use the management functions. The PC can be located either on-site or off-site. The *Portal Installation Manual* provides guidelines for connecting a PC to the local site network.

To access the management application, type the following into the address bar:

http://XXX.XXX.XXX.XXX.9810/web (where XXX equals your site IP address).

When a connection to the Portal is established, the log-in page should appear (as shown below). At initial startup, you will use the administrative (ADMIN) user account (user ID 00, password 00). (**Note**: The factory default passwords for all User Accounts should be changed to secure access to sensitive functions. Instructions for changing passwords is provided in the *Sierra Management Application Operations Manual*).

	<u>Login</u>	
Use	er ID or User Name:	
	Password:	
	Log In	

#### Figure 1. Portal TI Login Screen



Due to PCI compliance, once you login the first time using an administrative password , you will immediately be prompted to change your password to a more secure password that is at least 7 characters long and contains both letters and numbers, as shown below.

NOTE: An administrative password is a user that has either "User Management" or "Utilities" access privileges under Setup>Users. For more information on Users, see Section 3.5.

NOTE: To setup a non-administrative user to verify and sell codes or sell accounts, "Accounts and Promotions" and "Code and Account Sales" must be checked on the user account.

Change Password
Your current password has expired. Please enter a new password below:
User ID or User Name: Owner
Current Password:
New Password *: * 7 to 10 characters * must contain both numbers and lette
Confirm Password:
Save Cancel

Figure 2. Password Change Screen

To change the password, enter your old password, then enter your new password. Enter your new password again, then click Save.

You will be required to create a new password every 3 months. Please make note of the password and keep it in a secure location. You may not use the last 5 passwords.

After setting up your password, you may login to Sierra normally. If you forget your password, you may click on the Forgot Password? link on the top right of the login page (see Figure 1). Your password will be emailed to you. Please note that your email address must have been entered into the User profile in order for the password to be emailed to you. For more information, please see Section 3.5.

**NOTE:** If you enter your password incorrectly 6 times, you will be locked out of the system for half an hour.



**NOTE:** The new password will also be required to login to the Maintenance screens on the Portal, Sentinel and C-Start units. A keyboard will appear at units that have a touchscreen. For Portals that have a keypad, you either must use a keyboard to login, or you must scroll through the keys on the side of the display to enter your password.

Upon successful login, the Summary page of the management application will appear. This screen displays a list of devices present on the local network with a count of washes provided and associated revenue for the current day. Car counts and revenue results from previous days can be viewed by selecting the desired date in the calendar or by entering the start and end dates in the summary data fields. The current day data can be updated by selecting the Refresh button. The management functions are shown in a menu bar across the top of the screen. As each function is selected, a secondary menu of related options will appear on the left side of the screen.

ummary	Reports	Acco	unts	Promo	tions	Setup	_	_	Sal	es	_	ι	Jtilitie
				<u>Site Su</u>	mmary								
							<	0	ctob	er 20	013		>
							Sun	Mon	Tue	Wed	Thu	IFri	Sat
	te: 10/1/13 (Ti						23	24	25	26	27	28	1
Current Tim	ne: 10:39:12 /	MA					2	3	4	5	6	7	8
							9	10	11	12	13	14	15
							16	17	18	19	20	21	22
							23	24	25	26	27	28	29
Summary D	ata for:						30	31	1	2	3	4	5
Start Dat			ate: 10 Count	0/01/2013 Cash	Refres Credit	h Pre-Paid		Fleet		Tot	al	D	etails
Bay 1	Idle			\$0.00	\$0.00			\$0.					tails
Bay 2	Idle	. (	)	\$0.00	\$0.00	\$0.0	0	\$0.	00			1.000	etails
Totals		0	)	\$0.00	\$0.00	\$0.0	n	\$0.	00	\$	0.00		

Figure 3. Site Summary Screen



## **3** Set-up Functions

The Set-up function are used to program the Portal's operational settings and for managing system users. Portal programming should be performed during installation by your Unitec distributor, but there are some settings that an equipment owner may wish to change, periodically. This section of the manual describes the programmable features that are available. For specific details on using these features, see the *Sierra Management Application Operations Manual* on the manufacturer's website: www.StartwithUnitec.com.

## 3.1 General Site Information

Site information should be set during installation and would not typically need to be changed. The programmable features under site information include the site name and ID (as shown on reports and notifications), accounting close time, and credit card account set-up.

## 3.2 Product Programming

Products are Wash Packages or Added Services that can be purchased by a customer. The products will need to be set up by the installing distributor, but the equipment owner may need to access this feature to change prices or change the Added Services that will be offered with the wash packages.

## 3.3 Portal Programming

The Portal's configuration is programmed by creating a 'device profile' and downloading the profile to the Portal. Whenever a change is made to the device profile, the associated devices will need to be downloaded with the revised profile to implement the changes. The device profile configuration file includes a series of set-up pages, which are described in the following sections.

#### 3.3.1 General Information

The Edit Profile Information page is used to program some general operational settings of the Portal including:

- Offline Mode When 2 or more Portals are installed at a site, one will serve as a Master unit while the
  others will be secondary units. If the Master unit becomes inoperable, the secondary units will go to
  an off-line state. The Portal can be configured so a secondary unit will go 'out of service' if off line or
  operate in a 'cash only' mode (the default).
- Exact Change Mode When enabled (the default setting), the Portal will display 'Exact Change Only' when it detects that the change dispensers are empty or have failed.
- Upgrades When upgrades are enabled, a customer using a prepaid wash code or account will be offered to upgrade to a better wash by adding more payment. Upgrades are disabled by default, but can be enabled for wash codes (bought at the pump or in the C-store), pre-paid house accounts and/or, subscription house accounts.



### 3.3.2 Operating Schedule

The Operating schedule allows you to automatically set an opening and closing time for your car wash. The message that is displayed when the site is closed can be programmed on the User Interface Set-up Page (described in section 3.3.7). Operating schedules can be configured to vary by day of the week. The operating schedule is disabled by default.

### 3.3.3 Wash Dispensing

The wash dispensing page is used to assign and configure the wash packages that will be offered at the Portal. Wash packages must be set-up through the Products page (section 3.2) before they can be assigned to a Portal device profile. This feature will typically not be changed after installation, but there are some features of a wash package that an owner may want to adjust including:

- Added Services Offered Allows one or more additional services to be offered to the purchaser of the wash package. The Added Services to be offered can vary by package. An added service must be added to the device profile (per section 3.3.4) before it can be assigned to a wash package.
- Token Dispensing When enabled, one or more tokens will be dispensed with each purchase (of the wash package).
- Wash Details Text The wash details text is displayed under the Wash name inside the wash selection button. Up to 7 lines of text (18 characters per line) can be added. The wash selection button will be sized to fit the amount of text entered so the buttons can be made larger by entering more lines of text.

#### **3.3.4 Added Services Dispensing**

The Added Services Dispensing page is used to select and configure the added services that will be offered with one or more of the wash packages. Added services must be set-up through the Products page (section 3.2) before they can be assigned to a Portal device profile. An added service can be configured to dispense one or more tokens when purchased. This feature allows an operator to sell token packages as an added option to the wash purchase.

#### 3.3.5 Wash Interface

The Wash Interface Set-up page is used to configure the hardware interface between the Portal and the wash controller. These settings should only be changed by your distributor.

#### 3.3.6 Programming Hardware Devices

The Peripherals page is used to configure the various hardware devices in the Portal such as cash acceptors and dispensers. These settings would typically not be changed after installation.



### 3.3.7 User Interface Set-up

The User Interface set-up page is used to change messages displayed to customers and adjust 'time-out' values for certain user screens. There are several features on this page that an operator may wish to adjust including:

- Greeting Message Delay The delay from when a vehicle is detected (at the Portal) until the greeting message is played.
- Added Services Screen Timeout The amount of time the Added Services offer screen will be shown. If no selection is made within this time, the Portal will assume no added services are desired and transition to the next screen.
- Wash Options Screen timeout and text Wash options are enabled (through the Wash Dispensing page) to ask the consumer to select one of 2 options after their wash purchase. A typical use of this feature is to ask the customer of a hybrid wash to choose either 'Touchless or Soft Touch'. The screen timeout allows the Portal to move to the next screen if the customer does not make their selection within the allotted amount of time set by the timeout value.
- Force Receipt When enabled, a receipt will automatically be provided to each customer. When disabled, customers will be prompted for a receipt and one will be provided if they press the receipt button.
- Wash Closed Text The message that is displayed when the Portal closes, as programmed by the Out of Service schedule.
- Post Sale Text A programmable message that will be displayed after a customer's purchase if the wash is busy.
- Receipt Text Used to program up to 3 lines of text in the receipt header and 7 lines in the receipt footer.

## 3.4 User Management

Unique User IDs and passwords should be set up for employees, service personnel or others that may need access to the Portal. The User Set-up pages are used to create new user accounts and to edit or delete an existing account. User privileges that can be assigned are arranged in groups as follows:

- User Management Allows the user to set-up and manage other user accounts.
- Device Access Allows a user to open the Portal (without activating the alarm) and accessing the maintenance mode of the Portal.
- Device Set Up Allows access to the device (profile) programming functions.
- Cash Adjustments Allows the user to access the cash deposit and removal functions im Maintenance mode. These functions are used to adjust calculated cash balances as change is restocked or cash is removed from the Portal.



- Accounts and Promotions Allows the user to set up and manage promotional programs and house accounts.
- Code and Account Sales Allows the user to Access the optional console pages (for prepaid wash code sales).
- Reports Allows the user to access the Portal's accounting reports
- Utilities Allows the user to access system utilities including data logging and database back-up functions.

NOTE: An administrative password is a user that has either "User Management" or "Utilities" access privileges under Setup>Users.

NOTE: To setup a non-administrative user to verify and sell codes or sell accounts, "Accounts and Promotions" and "Code and Account Sales" must be checked on the user account.

## 3.5 POS Interface

The POS Interface function is used to configure the interface to a Point of Sale register in use at a C-store. These settings would typically not be changed after installation and should only be changed by your United distributor.

## 3.6 Sales Screen

The Sales screen set-up is used to configure the user buttons screen of the console screen. A button can be configured to issue a code for a specific wash package, check status of a code, or void a previously issued code. Buttons can also be used to print revenue or sales reports if a report printer is connected to the optional print server.



## 4 Promotions

The promotions feature is used to set up and manage various marketing programs. The types of programs that are available include discounts, complimentary washes, fundraisers, and scheduled specials. Reports for tracking and managing these programs are accessed through the menu options on the left side of the promotions management pages (as shown below). The value of promotions used in a time period is shown in the 'discounts' field of the summary section at the top of the site revenue report.

**NOTE:** Coupons are not supported for Canadian sites.

Summary		Promotions							
Status Report	Name	Туре	Status	Edit	Delete				
Jsage Report	\$ off coupon	Discount	Active	Edit	Delete				
	\$1 Token	Discount	Active	Edit	Delete				
	Boy Scouts	Fundraiser	Active	Edit	Delete				
	Grand Opening	Free Wash	Active	Edit	Delete				

Figure 4. Promotions - Main Screen

## 4.1 Discounts

Discounts can be configured so the value varies by wash package. The methods for redeeming a discount include code entry, card, coupon (inserted at the Bill Acceptor) or token. Other programmable features include:

- Usage Limit total number of uses allowed and number of uses allowed in a single transaction
- Scheduling Limit use of the discount to a specific date range, specific days of the week and/or, specific hours of the day

## 4.2 Complimentary Washes

The complimentary wash promotion provides a free wash when redeemed. Like the discount, this promotion can be configured for redemption by a code, paper coupon or token. The complimentary wash can also be set with a schedule to limit the days and/or hours when it can be used.

When a complimentary wash promotion is redeemed, the customer need not select a wash, as the associated wash will be automatically activated. If added services are enabled, customers will be allowed to purchase these services by adding payment.



## 4.3 Fundraisers

The fundraiser is a code-activated promotion intended to encourage supporters of an organization to use the car wash. No discount or other benefit is provided to the user at the wash but usage of the fundraiser 'code' is tracked and reported. The operator will typically donate a set amount to the organization for each wash purchase where the fundraiser code was entered. Fundraisers can be configured to apply to any of the available washes and usage can be controlled by a schedule and a limit for the total number of redemptions allowed.

When a fundraiser code is entered and validated, a thank you message will be displayed and washes that are not associated with the fundraiser will be removed from the product selection screen.

## 4.4 <u>Scheduled Specials</u>

Scheduled specials are discounts that are scheduled to automatically be applied at certain times and on specific days. The special can be configured to apply to any and all of the available washes and the amount of the discount can be set to vary for each wash package. When a scheduled special is active, the price posted for the associated wash will be reduced (on the wash section screen). The car wash operator can set up scheduled specials so an additional discount can, or cannot, be applied when the special is active.

## 4.5 <u>Prize Promos</u>

The prize promotion is a slot machine style promotion that allows for customers to play a game and win either discounts or vouchers. The prize promo screen is presented to the user after payment is complete but before the wash is dispensed. A maximum of three prize promotions can be configured at one time. Customer participation is optional.

- Any active prize can be awarded when the prize promo is presented (in accordance with the configured prize limits)
- The award frequency can be configured independently for each prize promo.
- Any three of a kind wins one of the (up to) three prizes.
- The redemption method is always a code printed on a receipt.



## 4.6 Promotions Setup

Summary	Reports	Accounts	Promo	tions	Setu	р	Sales	Utilities
Summary				Promot	tions			
Status Report		Name		уре	Sta	atus	Edit	Delete
Usage Report	Re	d Cross	Fundrais		Active	•	Edit	Delete
	W	acky Wednesday	/ Special			,	Edit	Delete
	W	orks Promo	Discoun			Active Edit		Delete
	Pla			Prize Voucher Prize Discount		;	Edit	Delete
	Sp					Active		Delete
		Promotion	<s< td=""><td>ELECT&gt; ELECT&gt; scount</td><td>Y</td><td>Add Ne</td><td>w Promotion.</td><td>••</td></s<>	ELECT> ELECT> scount	Y	Add Ne	w Promotion.	••

Figure 5. Promotions Main Screen

The Promotions Setup screen displays the current promotions. They are listed by name, type of promotions, and status. Note that the promotion statuses are 'active', 'inactive', 'expired', and 'exhausted'. 'Expired' means beyond the promotion schedule end date/time. 'Exhausted' only applies to promotions that have a maximum usage configured.

To setup a new promotion, select the type of promotion from the drop-down menu below the table and click Add New Promotion. The Edit Discount screen will be displayed.

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### 4.6.1 Prize Promo Setup

Summary	Reports	Accounts	Promotions	Setup	Sales	Utilities
Summary			Prom	otions		
Status Report Usage Report			Edit Prize	Promotion		
	Name: s	pin to <mark>Win</mark>	SiteLynx II	D:	Active	
	Priz	e Rate: 5.0	% Code Le	ength: 7 🔻	Expiration	n: 30 days
		Schedule	e: Enabled	Edit	Assign	Wash
		Offer Message	e: Would you like	to play for prizes?		
			Save	Cancel		

Figure 6. Prize Discount Setup Screen

- 1. To setup a Prize Discount, enter the name of the prize discount.
- 2. Enter the Prize Rate. The prize rate is the number of wins divided by the number of attempts (in percent).
- 3. Select a code length form 5-8. The default is 7.
- 4. Enter the prize expiration date. This can be set from 0-30 days. 0 days means the prize does not expire. The default is 30.
- 5. If you would like to enable a Schedule, click Enabled and Edit. Select the days and times the prize promo will be offered and click Save.
- 6. On the Assign Washes screen, a single wash can be assigned to this prize promotion along with the corresponding discount.
- 7. Enter the Offer Message. This field is limited to 140 characters.
- 8. Click Save.

Summary	Reports	Accounts	Promotions	Setup	Sales	Utilities	
Summary			Pro	motions			
Status Report Usage Report			Edit Priz	e Promotion			
		Name: New Pr	omotion	SiteLynx ID:		Active	
		Prize Ra	te: 5.0 %	Expiration:	30 days		
	Schedule:			Enabled	Edit		
		Of	fer Message:	Would you like to play for prizes?			
		Awa		Please present the receipt to redeem ye		n your	
		Rece		Please present this prize.	voucher to redee	m your	
			Save	Cancel			

Figure 7. Prize Voucher Setup Screen

- 1. To setup a Prize Voucher, enter the name of the prize voucher.
- 2. Enter the Prize Rate. The prize rate is the number of wins divided by the number of attempts (in percent).
- 3. Select a code length form 5-8. The default is 7.

The Car Wash Starts Here

- 4. Enter the prize expiration date. This can be set from 0-30 days. 0 days means the prize does not expire. The default is 30.
- 5. If you would like to enable a Schedule, click Enabled and Edit. Select the days and times the prize promo will be offered and click Save.
- 6. Enter the Offer Message, Award Message and Receipt Message. These fields are limited to 140 characters.
- 7. Click Save.

#### 4.6.2 Promotions Setup

To setup a new promotion, select the type of promotion from the drop-down menu below the table and click Add New Promotion. The Edit Discount screen will be displayed.

Summary	Promotions
Status Report Usage Report	Edit Discount Name: <mark>\$1 Token</mark> ⊠Active Method:
	Token 1 □Limit Use
	Assign Washes Schedule:
	Save

Figure 8. Edit Discount Screen

- 1. Enter the Name of the promotion. Select Active to enable the promotion.
- Select the method of the promotion from the drop-down menu. For Discounts and Free Washes, the methods are: Codes, Tokens 1-4, and VIP Coupons 1-3 and Mars Coupon. If Mars Coupon is selected, you will need to enter the 4-digit code from the coupon. For a Fundraiser, you may only choose Codes. For a Special, there is no method to choose from.
- 3. If you wish to limit the use of the promotion, select Limit Use then enter the maximum number of times the promotion can be used.
- 4. If you want the promotion to only run on certain days, under Schedule, click Enabled. Fill out the times and days on the subsequent screen. For Specials, you MUST fill out the schedule.
- 5. Click Assign Washes.

The Car Wash Starts Here

Summary	Promotions			
Status Report Jsage Report	Assign Washes Promotion: Coupon 1 All Washes: < <u>SELECT&gt;</u> Add to List			
	Applicable Washes Discount Remove from List			
	Deluxe Wash \$ 1.00 Remove from List			

Figure 9. Promotions Washes

- 6. Select the wash you wish to assign from the drop-down menu then click Add to List.
- 7. Enter the amount the discount is worth. Repeat for any additional washes the discount will be applied to.
- 8. Click Save. If you wish to change or delete a wash, click Remove from List by that wash.



9. Click Save.

## 4.7 <u>Promotions Reports</u>

#### 4.7.1 Status Report

The status report lists all promotions that have been configured and provides status information, as shown in the sample report below. The status will be active, inactive (disabled), exhausted (max uses limit reached) or expired (end date is reached). The uses and value fields show the total number of times the promotion was applied and the associated value of discounts applied.

		F	Promotions	Status				
Site:						R	≀un Date: !	9/1/2008
Promotion Name	Status	Start Date	End Date	Туре	Method	Code	Uses	Value
Wack y Wednesday	Active	3/15/2008	12/31/2008	Special			786	\$1,272.00
Wack y Wednesday Gazette Promo	Active Active	3/15/2008 6/25/2008	12/31/2008	Special Discount	Code	94852	786 245	\$1,272.00 \$245.00
					Code Coupon	94852 12571		
Gazette Promo	Active	6/25/2008	12/31/2008	Discount			245	\$245.00

Figure 10. Sample Promotions Status Report

#### 4.7.2 Usage Report

The Usage report provides a count and value of the promotions used over a user defined date range. The report will also show the percentage of washes to which the promotion was applied. The report will appear as shown below.



	Promotion l	Jsage Rep	ort		
Site: < <i>Insert Site Name He</i>	re>			Run Date:	9/1/2008
	Report Period:	mm/dd/yyyy t	to mm/dd/yy		
Promotion Name	Туре	Wash	Count	Value	% of Sales
Wacky Wednesday	Special	Works	12	\$15.00	12.0%
Wacky Wednesday	Special	Works	12	\$15.00	12.0%
Wacky Wednesday Gazette Promo	Special Discount	Works Supreme	12 6	\$15.00 \$6.00	12.0% 4.0%
Wacky Wednesday Gazette Promo Express Lube	Special Discount Free Wash	Works Supreme Supreme	12 6 15	\$15.00 \$6.00 \$105.00	12.0% 4.0% 2.0%

#### Figure 11. Sample Promotions Usage Report

## 5 House Accounts

The accounts module is a product option that allows house accounts to be set up and managed in the Sierra server application. Four account types are available: prepaid, subscription, loyalty, and fleet accounts. Accounts can be configured for redemption by a magnetic stripe card, numeric code or RFID tag. The Accounts module also includes reports for tracking account status and usage. Management functions will appear on the left side of the Accounts management page.

## 5.1 <u>Prepaid Accounts</u>

Prepaid accounts function as a gift card and can be configured with either a monetary value or a number of prepaid washes (e.g. 5 wash pass). Revenue received from the sales and recharges of prepaid accounts is shown in the *Other Revenue* section of the Site Revenue Report. Account uses (or redemptions) are reported under the *Prepaid* column in the *Net Sales* section of the Revenue Report. Once a prepaid account is set up for a customer, cards, codes, barcodes, or RFID tags may be activated and assigned to the customer.

The recommended method for issuing a prepaid account is to first create an Account Program through the *Programs* option in the Accounts menu. Example programs would be a \$50 gift card or 5 Express Wash pass. Once a program is established, individual accounts can be issued through the *Accounts* option in the Accounts menu. Configuration options for prepaid accounts include:

- Schedule restricts the account for usage on certain days or during certain hours
- Expiration set an expiration date for the account
- Frequency limit set a frequency limit for account usage (e.g., once per day, 3 times per week, etc...)



You may reload the account without reentering all information, and the customer may also reload his account at the entry unit. If the balance of the account is insufficient for the purchase, the customer will be asked if they'd like to recharge the account. If they choose to do so, they'll be prompted to add payment and the account will be recharged for the amount that's defined in the account program. For instance, if the account program is configured to provide (5) \$10 washes for \$40, the customer will be charged \$40 for the reload and 5 washes will be added to their account. One of those will be applied to the current sale so the remaining balance will be 4 washes. Please note that this feature will also apply to 'multi-wash' codes.

## 5.2 <u>Subscription Accounts</u>

Subscription accounts are designed to support an 'unlimited' wash application. These accounts are product-based accounts and are valid for a specific wash package. It should be noted, however, that customers using a subscription account are able to add money to upgrade to a better wash if *Upgrades* are enabled. As Sierra does not include a recurring billing application for subscription account payment, the sale of a subscription account is not reported as revenue. Likewise, redemptions against these accounts are not reported as revenue. Redemptions are included in the *Transaction Count* in the summary section of the revenue report but are excluded from the *Paid Transactions* count.

As with prepaid accounts, subscription accounts should be set up by first creating a subscription account program (e.g. Gold, Silver, Bronze pass) than issuing individual accounts from the desired program. Subscription accounts can also be configured to operate on a schedule and have expiration dates and frequency limits.

## 5.3 Loyalty Accounts

Loyalty accounts provide incentives to 'members' in order to encourage repeat visits. This feature offers two different programs: member discounts and frequent shopper rewards. The discount application entitles club members to discounts on one or more wash products. The frequency application functions as an 'electronic punch card' that provides rewards for repeat customers (e.g. buy 4, get the 5<sup>th</sup> for free).

A program must be setup for both options. When configuring the options, you must configure the following information:

- Program name
- Assign washes and discount values
- Allow other discounts indicates whether other discounts can be combined with member discounts (should be enabled by default).
- Schedule days/hours when the member discount can be used (default is 24/7)

The configuration options for the frequency program include:

- Program Name
- Assign washes select washes that, when purchased, qualify towards a reward
- Frequency Reward select wash that will be awarded



• Expiration – Days in which rewards must be claimed (default will be no expiration)

Accounts will be activated from the management pages by selecting the associated loyalty program and entering the customer-specific data, including:

- User name and contact details (address, e-mail etc.)
- Account Number
- Redemption method Code, Card or RF Tag

## 5.4 Fleet Accounts

Fleet accounts are intended as a 'house credit' application where a business will be billed for usage. Typical customers for fleet accounts include local law enforcement agencies and private businesses with a number of vehicles in their fleet. Fleet accounts are set up directly from the *Accounts* menu option and not from the *Programs* menu. Once a fleet account is set up for a business, cards, codes, barcodes, or RFID tags may be activated and assigned to individual users (or vehicles).

Fleet accounts can be set up to restrict a user to a single product or to allow them to select any available product. The feature also allows the car wash Operator to assign a discount (as a dollar value or percentage) to the account. This discount will be applied in the Account Transaction report, which serves as the fleet customer's statement (for billing).

The fleet account set-up page also has a check box, which is used to identify the account as a 'maintenance' account. Maintenance accounts are intended to be used for car wash site employees, service providers and others that may need to use the wash but are not paying customers. The use of maintenance accounts is not accounted for in revenue calculations but these uses are counted in the accounting and house account reports for tracking.

## 5.5 Account Programs

The account programs option is used to set-up standard products for pre-paid, Site Lynx pre-paid, and subscription accounts (e.g. \$50 gift card, 5 wash pass etc). Once the program is set-up the 'Accounts' option can be used to issue or edit an individual account.

Programs	Acco	Account Programs				
Accounts	Program Name	Category	Edit	Delete		
Status Report	\$50 Gift Card	Pre-Paid	Edit	Delete		
Fleet Report	Easy Pass Unlimited	Subscription	Edit	Delete		
Sales Report	Supreme Bundle	Pre-Paid	Edit	Delete		
	Ultimate Bundle	Pre-Paid	Edit	Delete		
	Category: Pre-paid	Add New A	account Prog	ram		

Figure 12. Account Program Screen

To setup a new account program, select from either Pre-paid, Subscription or Loyalty from the drop-down menu below the table and click Add New Account Program. The Edit Account screen will be displayed. To edit an existing account program, click Edit next to that program.

#### 5.5.1 Pre-Paid Account Program Setup

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Status Report Transaction Report	Name: \$25 Gift Card
ransaction Report	Name: \$25 Gift Card
	Type: Monetary 💌
Sales Report	Issue Price: \$25.00 Issue Value: \$25.00
Frequen	cy: Expiration:
Limit	Use ☑Enabled
	Duration: 6 months
Saba	dule: (Set both times to 12:00 AM to enable all day)
	Enable Start: 12:00 AM SEnd: 12:00 AM
	Mon Tue Wed Thu Fri Sat Sun
	Save Cancel

Figure 13. Pre-paid Account Program Edit Screen

- 1. Enter the name of the account program.
- Select the type of account from the drop-down menu. A product-based account is useable for only
   (1) wash product (which is selected from a drop down list). Monetary accounts can be used for



any wash. **NOTE**: Prepaid accounts can be monetary or product based; subscription accounts are product based.

- 3. Enter the Issue Price (or selling price) that will be reported when a new account is issued (or sold) and then enter the Value for which the account can be redeemed. This field is not present on Subscription accounts.
- 4. You may limit the use and only allow a certain amount of washes per day, week, month or year. To do this, click Limit Use and enter the amount of washes and the time increment from the dropdown menu.
- 5. If you wish for the account to have an expiration date, click Enable, then enter the duration of the account program. **NOTE:** This schedule runs in calendar months. The account will expire on the last day of the month, not 30 days from the issue date.
- 6. If you wish to limit usage of the account to certain days and hours, click Enable under the schedule block and enter the valid times and days of the week.
- 7. Click Save.

### 5.5.2 Subscription Account Program Setup

Programs Accounts	Edit Subscription Account Program					
Status Report	Account Program:					
Fleet Report	Name: 29.99 Unlimited Wash					
Sales Report	Product: Deluxe Wash 💉 Issue Price \$: 29.99					
Listing Report						
Loyalty Report	Automatic Reload: (Recurring)					
	✓Enabled					
	Reload Amount: \$ 30.00 every 1 month					
	Note: This information is used for reporting purposes only.					
	Note. This information is used for reporting purposes only.					
	Frequency: Expiration:					
	□Limit Use □Enabled					
	Duration: 6 months					
	Schedule: (Set both times to 12:00 AM to enable all day)					
	Enable Start: 12 : 00 AM S End: 12 : 00 AM					
	□ <mark>Mon □Tue □Wed □Thu □Fri □Sat □Sun</mark>					
	Save Cancel					

Figure 14. Subscription Account Program Edit Screen

8. Enter the name of the account program. Chose whether or not to force a receipt with each transaction.



- 9. Select the product from the drop-down menu.
- 10. Enter the Issue Price (or selling price) that will be reported when a new account is issued (or sold) and then enter the Value for which the account can be redeemed. This field is not present on Subscription accounts.
- 11. If desired, enable and enter the recurring bill amount. This amount will show up on reports ONLY. The entry unit WILL NOT automatically bill the customer, your credit processor wil.
- 12. You may limit the use and only allow a certain amount of washes per day, week, month or year. To do this, click Limit Use and enter the amount of washes and the time increment from the dropdown menu.
- 13. If you wish for the account to have an expiration date, click Enable, then enter the duration of the account program. **NOTE:** This schedule runs in calendar months. The account will expire on the last day of the month, not 30 days from the issue date.
- 14. If you wish to limit usage of the account to certain days and hours, click Enable under the schedule block and enter the valid times and days of the week.
- 15. Click Save.

#### 5.6 <u>Accounts</u>

When the accounts option is selected, a list of current accountholders will be displayed along with search functions to find a specific account. To view details of an account, click Edit next to the account. To setup a new account, select the account type from Fleet, Pre-paid or Subscription from the drop-down menu below the table. For new Pre-paid or Subscription accounts, you may select a Program from the additional drop-down menu.

#### 5.6.1 Prepaid and Subscription Accounts

For prepaid and subscription accounts, it's recommended that you first set up an account program, then select the program from the drop down list. Select add new account.

			РО
Programs Accounts	Account:	Edit Account	
Status Report Transaction	Last Name:	First Name: First Details	⊡Activ
Report Sales Report	Redemption: Card	Number: 2314567	Program: 5 Works Wasl
	Type: Product-based	Product: 🛛 Works Wash 🛛 🛩	Category: Pre-Pai
	Issue Price: \$50.00	Issue Value: 5 uses Reload	Balance: 5 use:
	Frequency:	Expiration:	18 Feb 🗸 2010
	Schedule:	(Set both times to 12:00 AM t	o enable all day)
	□Mon	Tue Wed Thu Fri	Sat □Sun

Figure 15. Prepaid Account Edit Screen

Save

Cancel

The account set-up page will show values that were set-up for the account program but additional data will need to be entered for the account holder as follows:

- Last and First name of the Account holder. A mailing address can be entered if desired by selecting the 'details' tab.
- Redemption method select code, card, barcode or RFID (Subscription accounts only) from the drop down menu.
- Number Enter code, card number or RFID tag number.

#### 5.6.2 Loyalty Accounts

Accounts will be activated from the management pages by selecting the associated loyalty program and entering the customer-specific data, including:

- User name and contact details (address, e-mail etc.)
- Account Number
- Redemption method Code, Card or RF Tag

PORTAL TI+

ograms		Edit Account	
counts	Account:		
atus eport eet Report	Last Name: Last	First Name: First	Details Active
les port	Redemption: (None) 💌	Number:	Program: Member Free Wash
ting port /alty	Type: Rewards 👻	Reward Product: Deluxe Wash	Category: Rewards
port		Reward Threshold: 4 washes	Balance: 0 / 4
	Assign Washes		
		Expiration:	
		Enabled 12 Jun 2013	
		Save	

Figure 16. Loyalty Account Setup Screen

#### **5.6.3 Fleet Accounts**

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Fleet Accounts are set-up and managed directly through the 'Accounts' option (not the 'Programs' option). Account set-up is a 2-step process. The first step will be to set up and save the fleet business account. The 2<sup>nd</sup> step will be to add users (drivers) under the account. From the main Accounts page select Fleet as the account type and click the Add New Account button.

grams ounts tus Report	Edit Account
nsaction port es Report	Name: New Account       Users       Details       Image: Acctive Category: Fleet         Type: Monetary       Category: Fleet       Discount: 0       Image: Acctive Category: Fleet         Discount: 0       Image: Account       Image: Account       Image: Account
	Frequency: Limit Use Schedule: (Set both times to 12:00 AM to enable all day) Enable Start: 12:00 AM End: 12:00 AM Mon Tue Wed Thu Fri Sat Sun Save Cancel

Figure 17. Edit Fleet Account

To set-up the fleet account:

The Car Wash Starts Here

- 16. Enter the business name for the account in the Name field.
- 17. Select the account type as monetary or product based. For product accounts, the associated wash product will need to be selected from the drop down list of available products.
- 18. Enter the value of discount that should be applied to the fleet customer's billing statement. Discounts can be set for a dollar value or a percentage.
- 19. Select 'maintenance' account if usage is not to be reported as revenue. **NOTE:** This account feature would typically be used for service providers and employees.
- 20. Select and enter usage limits, if desired.
- 21. If the account is only to be used during certain days or hours, enable and configure the account schedule.
- 22. Select the Details button and enter the billing address for the account, if desired.
- 23. Click save to save the account and return to the account listing.

To add or edit Users under a fleet account, find the account name in the account list and select edit. At the Account Edit page select the Users button. A list of current users will be displayed. Select the Add User function to get to the Edit Account User screen.

Unitec	The Car Wash Starts Here	
Unitec	The Car Wash Starts Here	

Programs Accounts Status Report Transaction	<u>Edit Account User</u> Account: New Account Name:					
Report	Last: User First: New Active					
Sales Report	Redemption: Method: (None) Number: Save Cancel					

Figure 18. Edit Account User

To add a new user,

- 24. Enter the first and last name of the account user
- 25. Select the redemption method (code, card, barcode or RFID Tag)
- 26. Enter the code, card number or RFID tag number for the user
- 27. Click Save.

### 5.7 Account Reports

#### 5.7.1 Status Report

A sample status report is shown below. This report will list all accounts that are set up in the account database with the following information:

- Account name and number
- Status Shown as Active, Inactive (the account has been disabled by the car wash operator), Expired, or Exhausted (prepaid account with no remaining balance).
- Date the account was originally opened
- Expiration date (if account is configured to expire)
- Remaining Balance shown as \$ value or number of uses, depending on the account type)
- Total uses since account was opened (as \$ value or number of uses, depending on the account type)



Summary	Reports	Account	ts P	romotion	s Set	up	Sale	s	Utilities		
Programs	Account Status Report										
Accounts Status Report	Site: Your De	ealership				Set	ttings	Print	Save		
Transaction	Run Date: 4/	14/2010									
Report Sales Report	Account Name	Acct#	Status	Open Date	Expiration	Bal (\$)	Bal (uses)	Total (\$)	Total (uses)		
		Acct#	Status Active		Expiration						
	Name		NAME OF COMME	Date		(\$)	(uses)	(\$)	(uses)		
	Name County Police		Active	Date 4/14/2010		(\$)	(uses)	(\$)	(uses) 0		

Figure 19. Sample House Account Status Report

#### 5.7.2 Listing Report

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This report allows you to export a list of account holders in .csv format. The exported file includes the account holder name and contact information, account number, and enrollment date.



### 5.7.3 Loyalty Report

The Loyalty Report provides a list of all members, their account numbers, uses, uses per month, and rewards information, plus any discount.

				Issued	Claimed	Expired	Average
<u>Account</u> <u>Name</u>	<u>Account #</u>	<u>Uses</u>	<u>Uses/Month</u>	<u>Rewards</u>	<u>Rewards</u>	<u>Rewards</u>	<u>Discount</u>
Andrews, Ed	59632159	26	6.2	5	4	1	\$1.08
Bruschi, Ted	84965327	14	3.7	2	2	0	\$1.00
Carlson,Jim	65843215	9	4	1	1	0	\$0.78
Francis, Lois	33256984	6	2.8				\$1.50
Harris, Jane	54213985	4	2.2				\$2.00
Jackson, Lou	44869532	22	5.6	4	2	1	\$0.64
Ortiz, David	95487623	18	7.2	3	2	0	\$0.78
Smith, John	25644459	12	4.5	2	1	1	\$0.58
Wilson, Terry	15789652	7	5.6	1	1	0	\$1.00

Figure 20. Sample Account Loyalty Report

### 5.7.4 Fleet Report

The fleet report provides a list of all uses from one or more accounts over a user defined date range. This report is used to generate a statement for fleet account billing. A sample fleet report is below. The report shows a fleet application where the Police Department with multiple users is provided with a \$2 discount off of the (\$11) Deluxe wash.

#### PORTAL TI+

		Set	tings	Send P	rint Sa
partment				Billing	Date: 11/3
F				Payment	
				Amount	
			120000-000		
			Remit 1		our Carwash 34 Main St
				Ci	ty, ST 12345
User Name	Account No.	Date	Site	Product	Net Due
Admin 1	1234	12/20/2011	01	Deluxe	\$9.00
Admin 1	1234	1/7/2012	01	Deluxe	\$9.00
Admin 1	1234	1/7/2012	01	Deluxe	\$9.00
Admin 1	1234	1/21/2012	01	Deluxe	\$9.00
Admin 2	2345	12/18/2011	01	Deluxe	\$9.00
Admin 2	2345	12/31/2011	01	Deluxe	\$9.00
Admin 2	2345	1/21/2012	01	Deluxe	\$9.00
CID	3333	12/22/2011	01	Deluxe	\$9.00
CID	3333	1/23/2012	01	Deluxe	\$9.00
Patrol 1	0001	12/9/2011	01	Deluxe	\$9.00
Patrol 1	0001	12/9/2011	01	Deluxe	\$9.00
Patrol 1	0001	12/10/2011	01	Deluxe	\$9.00
Patrol 1	0001	12/10/2011	01	Deluxe	\$9.00
Patrol 1	0001	12/10/2011	01	Deluxe	\$9.00
Patrol 1	0001	12/10/2011	01	Deluxe	\$9.00
Patrol 1	0001	12/14/2011	01	Deluxe	\$9.00
Patrol 1	0001	12/17/2011	01	Deluxe	\$9.00
Patrol 1	0001	12/21/2011	01	Deluxe	\$9.00
Patrol 1	0001	12/21/2011	01	Deluxe	\$9.00
Patrol 1	0001	12/22/2011	01	Deluxe	\$9.00
Patrol 1	0001	1/11/2012	01	Deluxe	\$9.00
Patrol 1	0001	1/11/2012	01	Deluxe	\$9.00
Patrol 1	0001	1/11/2012	01	Deluxe	\$9.00
Patrol 1	0001	1/18/2012	01	Deluxe	\$9.00
Patrol 2	0002	12/9/2011	01	Deluxe	\$9.00
Patrol 2	0002	12/17/2011	01	Deluxe	\$9.00
Patrol 2	0002	12/28/2011	01	Deluxe	\$9.00
Patrol 2	0002	1/7/2012	01	Deluxe	\$9.00
Patrol 2	0002	1/7/2012	01	Deluxe	\$9.00
Patrol 3	0003	12/30/2011	01	Deluxe	\$9.00
Patrol 3	0003	1/18/2012	01	Deluxe	\$9.00
Patrol 3	0003	1/20/2012	01	Deluxe	\$9.00
<b>T</b>					1000 00

#### Figure 21. Sample House Account Fleet Report

The Fleet Report contains the following information for the specified time period:

• Name of the fleet account

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- Dates of billing, when the payment is due, and the amount due
- The payment address
- User Name and Account Number (either card, code or RFID tag)
- Day the car wash was used
- The wash package that was purchased. Usually, a wash package is assigned to the account in setup.
- Price of the wash package used. The price is totaled at the bottom of the column.
- Amount of discount that is applied to the account (if any). The discount if totaled at the bottom of the column.
- Net amount due for each wash package used. The net amount is totaled at the bottom of the column to show the total amount due for that billing period. This is the same amount listed at the top of the report.





### 5.7.5 Sales Report

		A	count	Sales I	Report			
Site: Your Ca	rwash				Set	ttings	Print	Save
Run Date: 1/2 Report Perior		112 - 26	an 2012					
Account Name	Acct#	Program	Date	Sales Type	Value (\$)	Value (uses)	Price	Employee ID
Adams, John	38256083		1/14/2012	Issue	\$30.00		\$24.00	00
Washington, George	66913541		1/18/2012	Issue	\$100.00	222	\$70.00	00
Smith, John	52733161		1/14/2012	Issue	\$31.25		\$25.00	00
Smith, Jane	30622355		1/16/2012	Issue	\$52.00		\$40.00	00
Example, Ima	27274189		1/21/2012	Issue	\$35.00		\$28.00	01
\$100 Gift Card	29423077	\$100 Gift	1/18/2012	Reload	\$100.00		\$90.00	00
\$100 Gift Card	30761204	\$100 Gift	1/18/2012	Issue	\$100.00		\$90.00	00
\$100 Gift Card	56624211	\$100 Gift	1/18/2012	Issue	\$100.00		\$90.00	00
\$100 Gift Card	83847475	\$100 Gift	1/18/2012	Issue	\$100.00		\$90.00	00
\$100 Gift Card	82185278	\$100 Gift	1/18/2012	Issue	\$100.00		\$90.00	01
\$50 Gift Card	86037969	\$50 Gift	1/18/2012	Issue	\$50.00		\$0.00	00
\$50 Gift Card	72326034	\$50 Gift	1/18/2012	Issue	\$50.00		\$0.00	00
\$25 Gift Card	74354076	\$25 Gift	1/16/2012	Issue	\$25.00		\$20.00	00
\$25 Gift Card	50014935	\$25 Gift	1/16/2012	Issue	\$25.00		\$20.00	00
Parker, Peter	11657709		1/7/2012	Issue	\$20.00		\$16.00	00
Arthur, Chester	65738185		1/5/2012	Reload	\$50.00		\$40.00	00
West, Adam	49158965		1/15/2012	Issue	\$60.00	222	\$48.00	00

#### Figure 22. Account Sales Report

The account sales report provides a list of prepaid account sales and account reloads during a user defined date range. A sample report is shown above.

- Account Name and Number
- Program indicates whether an account program was used for this account.
- Date day account was purchased.
- Sales type -- indicates whether the entry is for a new account that was sold (issued) or a reload.
- Value indicates the dollar amount or number of uses that were added to the account and the
- Price -- indicates the amount due from the account holder.



• Employee ID – indicates the system user who issued or reloaded the account.

## 5.7.6 Account Transaction Report

ite:Your C	arwash			S	ettings	Print	Save
tun Date: 1	1/2/2014						
eport Peri	od: 1 Sep 2013 -	31 Oct 201	3				
Account Name	User Name	Acct#	Date	Location	Product	Discount	Net Amount
City Bus	Bus 5	11111111	9/17/2013	Your Carwash	Self Service Bay	\$0.00	\$20.00
	Bus 6	22222222	12/18/2013	Your Carwash	Self Service Bay	\$0.00	\$7.97
Total						\$0.00	\$27.97
Police Dept	Squad 1	12345678	9/6/2013	Your Carwash	Works	\$0.00	\$11.00
	Squad 2	23456789	9/9/2013	Your Carwash	Works	\$0.00	\$11.00
	Squad 1	12345678	9/16/2013	Your Carwash	Deluxe	\$0.00	\$8.00
	Squad 1	12345678	10/21/2013	Your Carwash	Works	\$0.00	\$11.00
	Squad 2	23456789	11/12/2013	Your Carwash	Works	\$8.00	\$3.00

#### Figure 23. Account Transaction Report

The Account Transaction Report displays all transactions over a user defined date range. The report can be filtered to show transactions for all accounts, all accounts of a certain type (e.g. subscription, fleet ...) or a single account. Records shown can be sorted by account name or transaction date.



# 6 Reports

The Reports function allows you to view accounting information and product usage, filtered by ranges and dates you specify. When a report is generated, the associated data will appear on the screen with Print and Save functions. By selecting the Print button, you can print a copy of the report at your local printer. The Save function allows the report data to be saved in .CSV format so it can be viewed and/or sorted in standard 3<sup>rd</sup> party software applications (such as Microsoft Excel).

- **Revenue Report** Reports revenue at a summary level for a user-defined time period.
- Sales Report –Lists items that were sold (e.g. Washes, Added Services, Wash Codes etc.) for a user-defined time period.
- **Cash Report** Daily report of cash received and dispensed by the Portal.
- **Transaction History** Listing of transactions recorded at the unit for a user-defined time period.
- **Code Listing** Listing of wash codes (sold at a C-store POS or Pump) currently stored in memory.



# 6.1 Site Revenue Report

Revenue reports can be generated for the current business day, previous day or for a user specified date range. From the report view, the user can print a report copy or save an electronic version in .CSV format. An example report is shown below with descriptions of the included data.

#### Revenue Summary Wash Packages

wash Packages							
	Qty	Paid	Revenue	Prepaid	Total	Subscription	Sales Net Avg
Express	12	12	\$96.00	\$0.00	\$96.00	\$0.00	\$8.00
Deluxe	16	16	\$144.00	\$0.00	\$144.00	\$0.00	\$9.00
Supreme	27	27	\$257.00	\$8.97	\$265.97	\$0.00	\$10.33
Works	79	79	\$900.00	\$31.33	\$931.33	\$0.00	\$12.00
Total	134	134	\$1,397.00	\$40.30	\$1,437.30	\$0.00	\$10.95
Added Services							
Total	0	0	\$0.00	\$0.00	\$0.00		\$0.00
Automatic Totals			\$1,397.00	\$40.30	\$1,437.30	\$0.00	\$10.95
Self Serve Products							
Self Serve Wash	122	107	\$481.13	\$0.00	\$481.13	\$0.00	\$4.50
Dog Wash	3	1	\$10.00	\$0.00	\$10.00	\$0.00	\$10.00
Vacuum	45	45	\$68.50	\$0.00	\$68.50	\$0.00	\$1.52
Self Serve Totals	170	153	\$559.63	\$0.00	\$559.63	\$0.00	\$3.66
Car Wash Totals	304	287	\$1,956.63	\$40.30	\$1,996.93	\$0.00	
Code Sales							
	Qty	Paid	Revenue	Average			
Code Totals	0	0					
Account Sales							
	Qty	Revenue					
Gift Card	1	\$97.83					
Total	1	\$97.83					



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#### **Account Reloads**

Total	0	\$0.00	
Site Totals			
	Revenue	Prepaid	Subscription
	\$2,054.46	\$40.30	\$0.00
Tax Collected	\$0.00	\$0.00	\$0.00
Total Payments	\$2,054.46	\$40.30	\$0.00
Fundraisers Due	\$0.00	\$0.00	\$0.00
Net Revenue	\$2,054.46	\$40.30	\$0.00

#### **Tender Summary**

<b>,</b>	Wash				Over/Under
Payment Type	Products	Codes	Accounts	Total	Payments
Visa	\$1,153.10		\$0.00	\$1,153.10	\$2.20
MC	\$212.63		\$0.00	\$212.63	\$0.00
Fleet	\$11.65		\$0.00	\$11.65	\$0.00
Cash	\$579.25		\$0.00	\$579.25	\$0.00
(external)		\$0.00	\$97.83	\$97.83	\$0.00
Total Payments	\$1,956.63		\$97.83	\$2,054.46	\$2.20
Prepaid Type					
Monetary Acct	\$40.30		\$0.00	\$40.30	
Total Prepaids	\$40.30			\$40.30	
Subscription Type					
Subscription				\$0.00	
<b>Discounts Applied</b>					
Туре	Count	Value			
Fleet Acct	2	(\$18.00)			
Total	2	(\$18.00)			

#### Figure 24. Sample Site Revenue Report

**Revenue Summary** - Provides a wash count, breakdown of purchased and pre-paid transactions, and average sales value. The prepaid column includes prepaid house accounts and 3<sup>rd</sup> party gift cards (through Mercury Payment Systems). Added services and self serve (if applicable) totals are also displayed.



Average sales metrics are provided with and without discounts applied and the value of all discounts is identified. This value includes promotions and any discounts provided to fleet customers.

**Code Sales -** Provides a breakdown of washes purchased from the pumps and registers.

Account Sales - Provides a breakdown of accounts offered on the sales screens

Account Reloads – Provides a breakdown of accounts that were re-purchased at the sales screen.

Site Totals – Displays the total of all revenue, pre-paid accounts, and subscription accounts (if any).

Tax Collected – Displays the total taxes charged for credit purchases (if required in your state).

Fundraisers Due - Identifies any amounts due from the use of fundraiser promotion types.

**Net Revenue** - Identifies the net revenue, with taxes and fundraisers subtracted from the previous sales totals.

**Tender Summary** – Provides a breakdown of the payment types submitted, included credit card type, cash, external fleet, prepaid cards or accounts, and subscriptions.

**Discounts Applied** – Provides the type of discount and monetary value of the discount.

## 6.2 Sales Report

The Sales report shows the products that were purchased in the reporting period. This report can be generated for a specific payment device or for all devices on site. The available report periods are current day, previous day or a user-specified date range. Sales reports can be printed or saved in .CSV format. An example report is shown below with descriptions of the included data.

#### PORTAL TI+

			Sale	s Re	por	t					
Site: Your Carwas	h					-	ttings		Pri		Save
olte. Tour carwas						Je	ungs	···· ]	FIL	m	Jave
Run Date: 26 Jan :	2012				Re	port P	erio	d: 1 E	)ec 2	011 - 1	Dec 20
Device(s): All Devi	ices										
Wash Activations	Product	Purcha	ses Co	de Use	Mainte	nance	Total	Usage	e		
	Express Wash	2	5	0	0	)	2	6.06	%		
	Super Wash	3		0	C	)	3	9.09	%		
	Deluxe Wash	6		0	C	)	6	18.18	%		
	Works Wash	22		0	0	)	22	66.67	%		
	Total	33		0	C	)	33	100	%		
Self Serve Activations			22032		1 KENN	200		000000000	ien.	220202	
Self Serve Activations	Deadurat	0.00	Cash		Cre		C.c.	Accour			enance
	Product Self Serve Was	Cour	122	×~ 00	ount 3 1	Avg.	Cou		Avg. Omin	Count 0	Avg.
	Self Serve Was Dog Wash	h 11 3				2.82 min 0.57 min			Umin 32 min	0	0 min 0 min
			0.02								¥ 0.00
Added Services	Product Cou	int Usa	age								
	Total O	(	) %								
Prepaid Upgrades	Product	Count	Amount	Usage							
	Express Wash	0	\$0.00	0 %	6						
	Super Wash	0	\$0.00	0 %							
	Deluxe Wash	0	\$0.00	0 %							
	Works Wash	0	\$0.00	0 %							
	Total	0	\$0.00	0 %							
Code Sales	Product	Pump	C-Store	Remot	e Conso	ole Tota	al Us	sage			
	Express Wash	0	0	0		0		0 %			
	Super Wash	0	0	0		0		0 %			
	Deluxe Wash	0	0	0		0		0 %			
	Works Wash	0	0	0		0		0 %			
	Total	0	0	0		0		0%			
Payments	<b>T</b>		Count	Userse							
, ayments	Type MasterCard Cre	414	Count 10	Usage 18.52 %	2						
	MasterCard Cre Visa Credit	uit	5	9.26 %							
	Debit		0	9.20 % 0 %							
	Cash			38.89 %							
	Discount		0	0 %							
	Fundraiser		0	0%							
	Fleet Account		0	0%							
	Prepaid Wash		0	0 %							
	Prepaid Accour	nt		18.52 %							
	Free Wash			11.11 %							
	Special		o	0 %							
	Subscription Ac	count	2	3.7 %							
	Total		54	100 %							

The Car Wash Starts Here

Figure 25. Sample Sales Report

**Wash Activations** - Provides a count of washes dispensed, broken down by wash type, and includes washes dispensed using codes or maintenance accounts. The usage metric shows the percentage of activations for each wash type. Self-serve wash packages are displayed by purchase type - cash, credit, house account, or maintenance account.

**Added Services** - Provides a count of added services that were purchased, broken down by service type. The usage metric shows the percentage of customers that selected the service.

**Prepaid Upgrades** – Provides a count of and dollar amount earned for upgrades purchased with a wash package. The usage metric shows the percentage of activations for each wash type.



**Code Sale**s – Provides a count of code sales and is displayed by POS device – pump, c-store register, or remote console. The usage metric shows the percentage of activations for each wash type.

**Payments** - Provides a list of payment methods used with the percentage of use (based on \$ value).



# 6.3 Cash Report

The cash report provides details on cash, coupons and tokens that were received and dispensed during the business day. The report can be generated for the current day (as a real time snapshot) or for any previous day. An example report is shown below with descriptions of the included data.

			<u>Ca</u>	ash Re	port			
Site: Your Carv	vash				(	Settings	Print	Save
Run Date: 27 J	an 2012 9	·28 Δ	м		Repor	t Period: 23		
tun Date. 21 o	01120120	.20 A				2	27 Jan 20	012 11:59 F
All Devices:								
Net Cash Received:	\$203.00							
Net Deposit:	\$433.00							
Date/Time	Device	User ID	Туре ,	Bill Acceptors	Coin Acceptors	Bill Dispensers	Coin Dispensers	Total
1/26/12 7:42 PM	SENTINAL 1	00	remove	\$315.00	\$1.50	\$0.00	\$0.00	\$316.50
1/26/12 7:44 PM	SENTINAL 2	00	remove	\$282.00	\$18.50	\$0.00	\$0.00	\$300.50
1/27/12 6:39 AM	SENTINAL 1	00	add	\$0.00	\$0.00	\$94.00	\$2.50	\$96.50
1/27/12 6:43 AM	SENTINAL 2	00	add	\$0.00	\$0.00	\$85.00	\$2.50	\$87.50
Ending Balance Cash Received Cash Dispensed Net Cash Cash Added Cash Removed	\$1,609.00 \$168.25 \$75.25 \$93.00 \$96.50 \$316.50		Dollar Bill Five Dollar Bil Ten Dollar Bill Twenty Dollar Oth	3	\$7.00 \$30.00 \$30.00 \$100.00		Bill 24 ollar Bill 9 Other Dispe	\$45.00
Net Deposit	\$220.00		No	data available			No data avail	able.
Device: SENT Cash Sun			Cas	sh Receive	ed	с	nange Disp	ensed
Type	Amount		Туре	Count	Value		pe Cou	
Starting Balance	\$1,700.00		Quarter	50	\$12.50	Quarter	- 6	\$1.50
Ending Balance	\$1,597.00		Dollar Bill	12	\$12.00	Dollar I	9ill 18	\$18.00
Cash Received	\$174.50		Five Dollar B	ill 10	\$50.00	Five D	ollar Bill 9	\$45.00
Cash Dispensed	\$64.50		Ten Dollar Bil	I 4	\$40.00			
Net Cash	\$110.00		Twenty Dolla	r Bill 3	\$60.00			
Cash Added	\$87.50			-				
Cash Removed	\$300.50		Oth	ier Receip	ts	C	)ther Dispe	ensed
				data available			No data avail:	

#### Figure 26. Sample Cash Report

The top section displays the cash adjustments record that is generated when an employee uses the cash removal or deposit functions (from the Maintenance functions) to restock change devices or remove cash



from a cash acceptor or dispensing device. The adjustment record shows the date and time of the event, the user ID of the employee that performed the adjustment, and lists the amount of cash that was added or removed. The total amount of cash that was added and removed through these adjustments should match the associated entries in the Cash Summary section.

The bottom of the report displays the cash information for each device.

**Cash Summary** - Shows starting and ending balance of all cash in the unit (in both bill and coin acceptors and change dispensing devices). The amount of cash that was collected from customers is shown in the Cash Received entry. The Cash Added entry is the amount of cash that was added to restock change dispensers. The Cash Removed entry is the amount of cash that was removed from any of the cash devices (cash acceptors or change dispensers). If the Cash Added or Removed amounts are not zero, there should be a cash adjustment entry at the end of the report that provides a record of related events.

**Cash Received** - Provides a count and value of all cash received from customers, broken down by type and denomination.

Other Receipts - Provides a count of non-cash media (coupons, tokens) received from customers.

**Change Dispensed** - Provides a count and value of all change dispensed to customers, broken down by type and denomination.

**Other Dispensed** – Provides a count of tokens dispensed (if applicable).

## 6.4 Transaction Report

The transaction report provides a list of all transactions that were recorded over the reporting period. Reports can be generated for the current business day, previous day or for a user-specified date range. Additional filters are provided to refine reports include:

- Devices show transactions for a single payment device on the site.
- Products show transactions where a specific product (wash or added service) was purchased.
- Payment Type show transactions where a specific payment type (cash, credit, house account etc.) was used. Additional filters are provided for some payment types to further refine the report to a specific account or account type.

An example report is shown below. The date, time, amount, device, product and any discounts applied are listed for each purchase. The payment column displays the specific payment types used. This column will show 'Multiple' for a transaction that included multiple payment types (i.e., split tender). The Account Name column (if applicable) will list the account holder's name for transactions that were paid with a house account. The Account column will display either the last four numbers of the credit card used or the house account used. The Transaction status will be shown as processed (transaction was completed), cancelled (customer cancelled the transaction before it could be completed), or pending (transaction was started was not completed, still in process).

			Transa	ction Repor	<u>t</u>			
Site: Your (	Carwash	n			Settings)	Prin	nt	Save
Run Date: :	27 Jan 2	2012		Report P	eriod: 27	' Jan 20	12 - 27 J	an 201
Device(s):	All Devi	ces						
Date/Time	Amount	Device	Product(s)	Payment(s)	Discount	Account	Status	Details
1/27/12 09:29	\$11.00	SENTINAL 1	Deluxe Wash	MasterCard Credit	\$0.00	3416	Complete	details
1/27/12 09:23	\$11.00	SENTINAL 2	Deluxe Wash	MasterCard Credit	\$0.00	8380	Complete	details
1/27/12 09:20	\$11.00	SENTINAL 2	Deluxe Wash	Visa Credit	\$0.00	5742	Complete	details
1/27/12 09:19	\$7.00	SENTINAL 1	Express Wash	Cash	\$0.00		Complete	details
	\$11.00	SENTINAL 1	Deluxe Wash	Visa Credit	\$0.00	4396	Complete	details
1/27/12 09:14			Deluxe Wash	Remote POS Code	\$0.00	POS 1	Complete	details
1/27/12 09:14 1/27/12 09:02	\$11.00	SENTINAL 1	Derake wash	Kennote FOS Code	40.00	FUS I	comprete	
	\$11.00 \$11.00	SENTINAL 1 SENTINAL 2	Deluxe Wash	Remote POS Code	\$0.00 \$0.00	POS 1	Complete	details
1/27/12 09:02								14412470
1/27/12 09:02 1/27/12 08:55	\$11.00	SENTINAL 2	Deluxe Wash	Remote POS Code	\$0.00	POS 1	Complete	<u>details</u>

Figure 27. Sample Transaction Report

When the transaction report is viewed, a "details" link will be displayed for each record. By clicking on this link, the user can view and print a more detailed record of the transaction. An example of this detailed view is shown below.

				Tra	nsact	tion	Det	tails			
Site:										ſ	Print
Started: 1/27/2										L	
Completed: 1/27/2	012 9:19:	38 AM									
Total:\$7.00											
Status: Compl	ete										
Products											
Name Type	Rate	Quantit	y D	evice							
Spit Bath Wash	\$7.00	1.0	O SEN	ITINAL 1							
Payments											
Payments Type		Amount	Media	Acct#	Expires	Ref#	сс	Status	Acct Name	User Name	
	ised)	Amount \$3.00	Media Bill	Acct#	Expires	Ref#	CC	Status Complete	Acct Name	User Name	10
Туре		10177 - 2017	1101 104-10-10	Acct#	Expires	Ref#	CC	2.2.2.2.2.2	Acct Name	User Name	
Type Dollar Bill (dispen		\$3.00	Bill	Acct#	Expires	Ref#	CC	Complete	Acct Name	User Name	6
Type Dollar Bill (dispen		\$3.00	Bill	Acct#	Expires	Ref#	CC	Complete	Acct Name	User Name	6
Type Dollar Bill (dispen		\$3.00	Bill	Acct#	Expires	Ref#	CC	Complete	Acct Name	User Name	
Dollar Bill (dispen		\$3.00	Bill	Acct#	Expires	Ref#	CC	Complete	Acct Name	User Name	6
Type Dollar Bill (dispen		\$3.00	Bill	Acct#	Expires	Ref#	CC	Complete	Acct Name	User Name	të
Type Dollar Bill (dispen		\$3.00	Bill	Acct#		Ref#	CC	Complete	Acct Name	User Name	to

Figure 28. Sample Transaction Details

# 6.5 Code Listing Report

The Car Wash Starts Her

The code listing report is applicable to sites that use the optional POS interface or console for wash code sales. It can be used to check the status of a specific code by entering all or part of the code number. To generate a complete list of wash codes in memory, leave the code field blank and select the Run report button.

#### PORTAL TI+

te: Vour (									
te. rourt	Carwa	sh					Run [	Date: 3/23	/10 13:
1	Code	Status	Expires	Issue Date	Redemption Date	Product	Source	Issued By	
6	6370	Used	3/30/10	3/23/10	3/23/10	Express Wash	POS	Register	
1	1644	Used	3/30/10	3/23/10	3/23/10	Express Wash	POS	Register	
71	6806	Used	3/30/10	3/23/10	3/23/10	Express Wash	POS	Register	
6:	5289	Used	3/30/10	3/23/10	3/23/10	Deluxe Wash	POS	Register	
1:	83026	Used	3/30/10	3/23/10	3/23/10	Express Wash	POS	Register	

The Car Wash Starts Here

Figure 29. Sample Code Listing Report

The wash codes currently stored in memory are listed in chronological order. The code status will be shown as Active, Used or Expired. The Expires column displays the date the code expires. The Issue Date column displays the date the code was issued. The Redemption Date displays the date the code was used if any. The Product column displays the wash package sold. The Source column will indicate whether the code was sold from a console, C-store POS register or purchased at the pump. For codes sold at the console, the 'Issued by' column will show the user ID of the attendant that issued the code ticket. If more than 15 records are returned for the report query, use the page navigation at the lower right corner of the table.



# 7 Sales

The Sales tab displays and functions as a Point of Sale console interface. You must first set up the Sales screen in the POS Interface in order for this screen to be populated.



Figure 30. Sales Screen

The Sales screen function keys are color-coded. Washes are blue and reports are red. Account, reloads, rewashes and the check and void code functions are teal.



	SE to generate a code
CA	NCEL
Code: Product: Expires: Price:	Ultimate Wash

To purchase a wash package, select one of the washes then click Purchase.

Figure 31. Purchase Wash Package Screen

A code will be generated and displayed on the screen. You may then print the code from the POS printer or from the print function of your PC.

	ONE
Code:	989489
Product:	Express Wash
Expires:	03 Feb 2012
Price:	\$5.00

Figure 32. Wash Purchased Screen



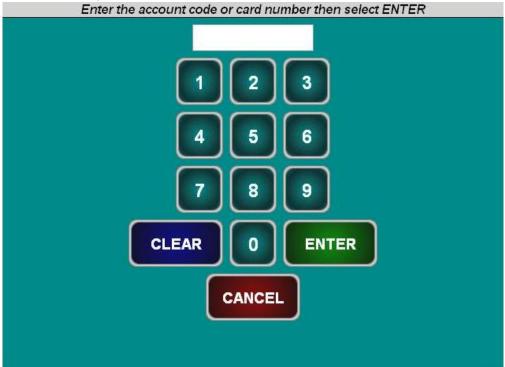
Select the	redemption method
CARD	CODE
	CANCEL
Number:	
User Name:	
Account Program:	Ultimate Pack
Expires:	
Price:	\$5.00
Balance:	2 (uses)

To purchase a new account, click on the account:

Figure 33. Account Purchase

- 1. Select code or card.
- 2. Enter the account number.
- 3. Enter the account holder's name.
- 4. Click Purchase to finalize the account purchase.





To reload an account, click Reload and enter the account number.

Figure 34. Reload Account Screen

Ensure the account holder's information is correct, then click Reload.

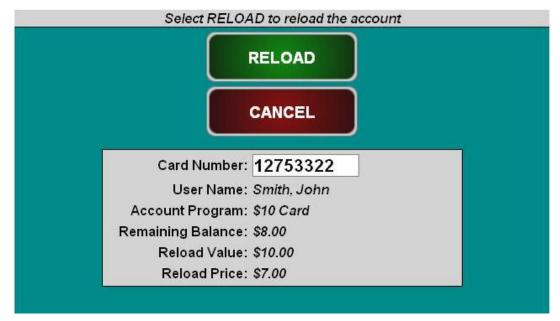


Figure 35. Reloaded Account Screen





S	elect a wash
Express Wash Deluxe Was	sh Supreme Wash Ultimate Wash
	CANCEL
Co Produ Expir	

To issue a rewash code, click Rewash then select the wash to issue the code:

Figure 36. Rewash Selection Screen

ONE	
661952 Deluxe Wash 07 Feb 2012	

Figure 37. Rewash Code Issued Screen



To print a report, select the report type. If you would like to select a date other than the current day, select Change Dates. You may select the current day, select the previous day, or select a date range, then click Done, then Print Report. **NOTE:** The Report functions on the Sales page are for console users **ONLY**.



Figure 38. Report Date Selection Screen



# 8 Utilities

The Utilities tab allows you to view the current server version, view the current C drive version, view any hot fixes applied, view the IP address, set the system date and time, backup and restore the databases, view the event log, and upload software updates.

System	System Information
Database Events	Server Version: v1.42
Logs	C Drive Version: v3.04A
Files	Hotfixes: None
Hot File Diagnostics	Server IP Address: ::1 192.168.2.100
	Database ID: 39988189
	Clock/Calendar:
	Current Date: 18 Jan v 2012 Current Time: 11:45 AM v
	Server Status:
	Server Mode: Site Lynx Reporting Current Status: unknown Refresh Status
	Restart Server Shutdown Server
	Enable Support Mode

Figure 39. System Utilities Screen

The System Utilities screen displays the current installed server software version, installed hot fixes (if any), the server IP address as allocated by the router, and the database ID. It also displays the time and date and allows you to restart or shutdown the server from that screen without requiring a login to Maintenance Mode.

- 28. To set the calendar: enter the day, select the month from the drop-down menu, and enter the current year.
- 29. To set the current time: enter the hours and minutes then select AM or PM from the drop-down menu. Once the time is changed, you will be logged out and the time will be downloaded to any secondary devices.
- 30. To restart or shutdown the server, click the button. The system will confirm the restart or shut down, then restart or shut down the server. All devices will go into Cash-Only mode.
- 31. IMPORTANT NOTE: For Portals and Sentinels, if the server is shut down, the primary unit running the server will shut down and all other units will go into Cash-Only mode. Be sure someone is on site to restart the primary unit.



32. IMPORTANT NOTE: For WashPay systems, ensure that there are no pending transactions before restarting or shutting down the server, or those transactions will be lost.

## 8.1 Enable Support Mode

Enable Support Mode is a feature that allows Unitec Customer Service to access and troubleshoot the server via remote access. If your devices are having problems, call Unitec Customer Support at 1800 Click the button to access the next screen.

System	Enable Support Mode
Database Events Logs Files	Support Mode Status: Enabled Current Database ID: 39988189 (please contact Unitec customer
Hot File Diagnostics	Authorization Code:service to obtain an authorization code) Enable Disable Done

Figure 40. Enable Support Mode Screen

The Unitec Customer Support representative will provide a 16-digit authorization code to gain access to the server. Once that is entered correctly. Click Enable. Support Mode will automatically disable in 24 hours.



## 8.2 Database Management

Summary	Reports	Accounts	Promotion	s	Setup		Sales	Utilities
System		s	erver Data	base	Maint	enance		
Database		-						
Events		Server Version:	v1.73					
Logs		Database ID:	22948064			Change		
Files			Compact an	d Clean	up Datab	ase		
Hot File								
Credit Modem			Delet	te Old C	odes			
Shared			Edit Automa	tic Bac	kup Setti	ngs		
Payments			Restore	Factory	Defaults			
	Bad	ckup File Name	Version	Drv	Da	ate/Time	Restore	Delete
	uess2173	31409121315.bal	( 1.73	D:\	9/12/14	1:15 PM	Restore	Delete
	uess2173	31409121259.bal	( <mark>1.73</mark>	D:\	9/12/14	12:59 PM	Restore	Delete
	uess2173	31409121248.bal	( 1.73	D:\	9/12/14	12:48 PM	Restore	Delete
		Location:	d:\backups		•	Create	New Backup	

Figure 41. Database Utility Screen

The Database Utility screen is used to backup and restore the Sierra Server databases. Database back up files can be used to restore operation of the system in the event of a catastrophic event. To minimize the potential for lost sales data, regular back-ups should be performed. The software version, date and time of previously created back-ups are displayed on the screen.

#### 8.2.1 Compact and Cleanup Database

The Compact and Cleanup Database function allows you to delete old transactions from the database. This will delete old information from reports and free up memory. To compact and cleanup the database:

Reports	Accounts	Promotions	Setup	Sales	Utilities
		Compact a	nd Cleanup	1	
	~				
De Su	le to create nard			ualabase back	ups before
	Delete A	All Transactions pr	ior to: 12 Ma	r ▼ 2014	
		Delete Transactions	STATUS: Rea	dy	
		Ba	ck		
	WARNIN	WARNING: This utility w be sure to create hard Delete A	<u>Compact an</u> WARNING: This utility will permanently del be sure to create hardcopy reports of th proce Delete All Transactions pr Delete Transactions	Compact and Cleanup WARNING: This utility will permanently delete some or al be sure to create hardcopy reports of this data and/or proceeding. Delete All Transactions prior to: 12 Ma	Compact and Cleanup WARNING: This utility will permanently delete some or all transaction hi be sure to create hardcopy reports of this data and/or database back proceeding. Delete All Transactions prior to: 12 Mar V 2014 Delete Transactions STATUS: Ready

Figure 42. Database Compact and Clean Screen

Enter a start date. Click Delete Transactions.



NOTE: All transactions prior to that date will be deleted, so make sure to create a database backup and hardcopy backups before performing this function.

## 8.2.2 Delete Old Codes

The Deleting Old Codes function allows you to erase old POS codes from the database to remove old unused codes from reports and free up memory. To delete old codes:



Figure 43. Delete Old Codes Screen

Enter the number of days. Click Delete Codes.

NOTE: All codes prior to that number of days will be deleted, so make sure to create a database backup and hardcopy backups before performing this function.

#### 8.2.3 Automatic Backups Schedule for Server

To schedule Automatic backups, click on Edit Automatic Backup Settings.

System	Database
Database Events	Automatic Backup Settings
Logs	☑Enable Automatic Backups
Files	Automatic Backup Files Location: Local Drive (D:) 🗹
Hot File Diagnostics	Perform Automatic Backups at: 12 : 00 AM 🧹 (daily)
Meenande.	Save Cancel

Figure 44. Automatic Backup Settings Screen

33. Click Enable Automatic Backups, then select the location, either the D drive or a thumbdrive, from the drop-down folder. Enter a time to perform the automatic backup. Click Save.



- 34. To create a backup: Make sure all devices are idle. You may choose where to save the backed-up data. To save backups on a separate device, a thumb drive should be connected to one of the USB ports on the primary carrier board.
- 35. **Note:** The thumbdrive MUST have a root folder named "backups" to backup data to it and restore from it.
- 36. Click the Create New Backup button below the table. Once the back up is saved, the devices will reload and the new back up will have been added to the screen. To delete an old database backup, click the Delete button next to that file name.
- 37. To restore the Sierra Server to a backed-up version of the database: Make sure all devices are idle. Click the Restore button next to the version you wish to restore. Once the database is restored, all devices will reboot.
- 38. **Note**: Any activity that occurred since the last back up will be written over by performing the Restore and that activity will be lost, including sales transactions and configuration changes.

### 8.2.4 Restore Factory Defaults

This function should only be used when advised to by Unitec Customer Support.



## 8.3 <u>Files</u>

System	Load Update Files to Server
Database	
Events	
Logs	Source: Thumb Drive Upload
Files	
Hot File	
Diagnostics	Done

Figure 45. Files Screen

The Files screen allows you to load software update files and post sale video files to the unit. Updates are provided on a thumbdrive that is to be connected to the USB port on the primary carrier board. With the thumbdrive installed, click the Load Files button. The thumbdrive should be listed as a source location. Select it and click Upload. **Note:** Video files must be in .wmv format.



# 9 Maintenance Functions

The Maintenance screen displays the current status of the devices located in the Portal unit. This screen is only accessible from the Portal, and will appear after you turn the key in the lock and login to the unit or by entering the code 4401 at the Sales screen.

	Status	
Setup	NetBIOS Name: PORTALAB64F6 Host Name: PORTALAB64F6 IP Address: 192.168.2.117 Portal Name: Portal Plus Portal ID: 1 Portal UUID: 5D8749ED-56ED-45EF-BEE8-003018AB64F6 Site Server IP: 127.0.0.1:5001 Service ID: 49D662CA-948A-428F-B952-85C8E4E9298C	Test Hardware
Utilities	Peripherals: Receipt PrinterOnline Top Front Coin DispenserOnline Card ReaderOnline Bill AcceptorOnline	Cash Functions
Reports	Coin AcceptorOnline Display IOOnline Miscellaneous IOOnline Wash IOOnline I2C MasterOnline Bill DispenserOnline	
Operational Mode	Portal Version: PT-D1.54.112i	Shut Down

Figure 46. Portal Maintenance Screen

The Portal Maintenance screen provides access to the following screens. To display these screens, press the button beside the item you wish to display.

**Setup** – This key allows you to access the Management System pages to edit Portal configuration settings, designate the Portal as the master, and to run a ping test to the Sierra Server (that's running on the master Portal).

Utilities -- This key allows you to transfer files to and from a flash drive and to view the Portal logs.

**Operational mode** – This key returns the Portal to the Welcome screen. The system will remain in the operational mode until it senses the door key switch has been "removed" again, or at the close of the next transaction. A log will be created when the operational mode button is used. Note that the vault door must be closed (not necessarily locked) before Operational mode can be entered.



Test Hardware – This key brings up the screen to test installed devices.

**Cash Functions** – This key allows an authorized user to deposit or remove cash from the Portal vault. This will reset the cash totals.

**Shutdown** – This key is used to shut down, restart the Portal unit, or reload the device profile without having to open the door. (Note: The shut down function should always be performed before turning off power to the Portal).

# 9.1 Cash Functions

Cash functions allow an authorized user to deposit or remove cash into or from the Portal vault. This will reset the cash totals. (**Note**: the Cash function should be used whenever change is restocked or cash is removed from the Portal. Failure to do so will cause the cash report to be inaccurate and could cause false alert notifications to be sent).

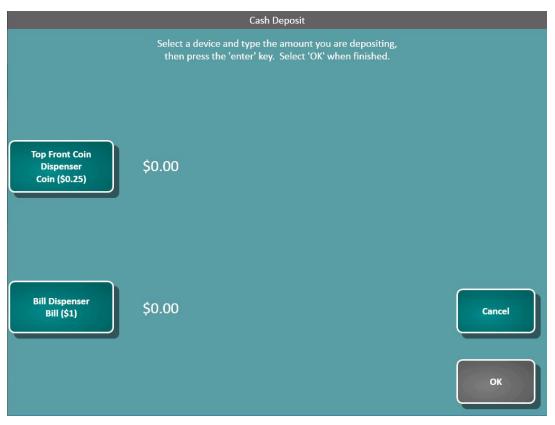
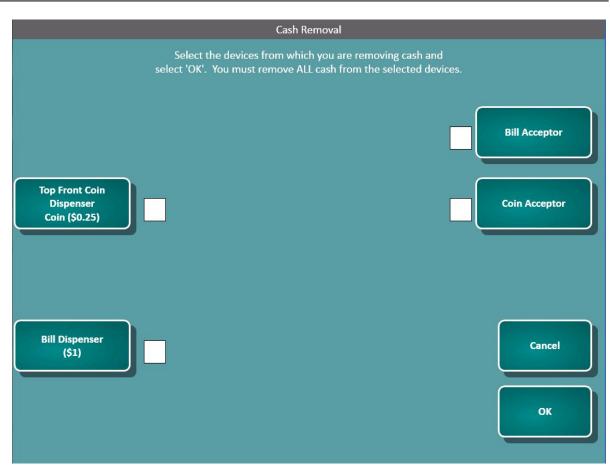


Figure 47. Cash Deposit Screen

The Cash Deposit screen allows you to keep track of cash deposited into the Portal. All enabled coin and bill dispensers will display on the screen. Enter the amount for coins and bills in each slot then press OK. Upon completion of the deposit, the Portal printer will issue a receipt listing the amounts added and updated cash balances.





The Car Wash Starts Here

iitec

Figure 48. Cash Removal Screen

The Cash Removal screen allows you to keep track of the cash removed from the Portal. When removing cash, you must remove ALL cash from that selected device in order for the Portal to report accurate amounts. Select the device you wish to remove cash from and click OK. Upon completion of the withdrawal, the Portal printer will issue a receipt listing the amounts removed and updated cash balances.

If you have the bill dispenser installed, you MUST unlock the bill dispenser from this screen before attempting to remove cash from the cassettes.

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## 9.2 Shutdown

The Shutdown feature allows you to shutdown or restart the Portal. Once the Portal software is shutdown, you may shutdown the unit at the main power switch inside the unit.

Note: The shutdown function should always be executed before powering off the Portal.

The reload feature allows you to reload the device profile.

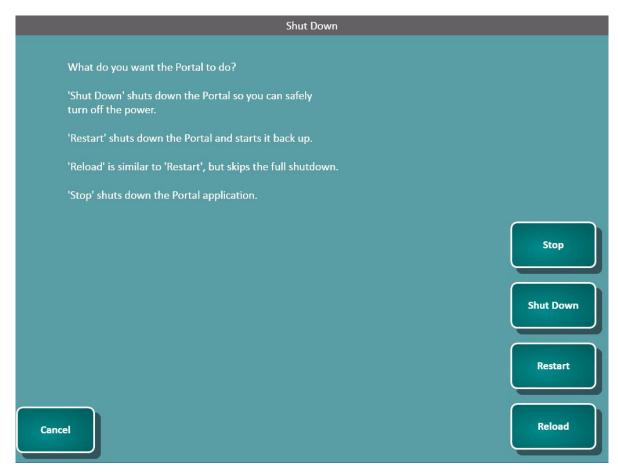


Figure 49. Shutdown Screen





# **10 Component Operation and Maintenance**

This section of the manual describes the normal operating procedures and basic troubleshooting and repair techniques for each of the system components. The following procedures are designed to provide you with the hardware troubleshooting and service information you need in order to provide your customers with the highest quality service possible.

When troubleshooting any issue, verify that the power supply is providing power to the affected component.



**Caution:** Only trained technicians should perform maintenance or repair procedures.

## 10.1 Component Layout

The following figures present the location of the Portal TI components. Some of these figures include optional features. Depending on the optional features purchased, specific unit components may vary.

#### 10.1.1Portal TI Door Assembly

The door assembly contains the system components that provide direct access to the Portal TI. Figure 1 shows the front view of the door assembly with all visible components labeled.



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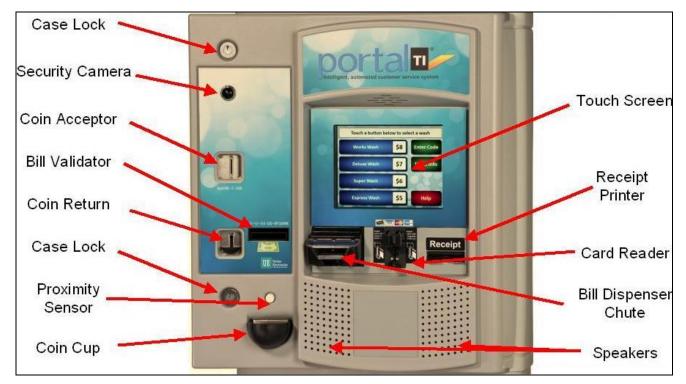


Figure 50. Portal TI Front View Visible Components

### 10.1.2 Inside the Portal TI Door Assembly

The system components built into the Portal TI Unit door are laid out as shown in the following figure.





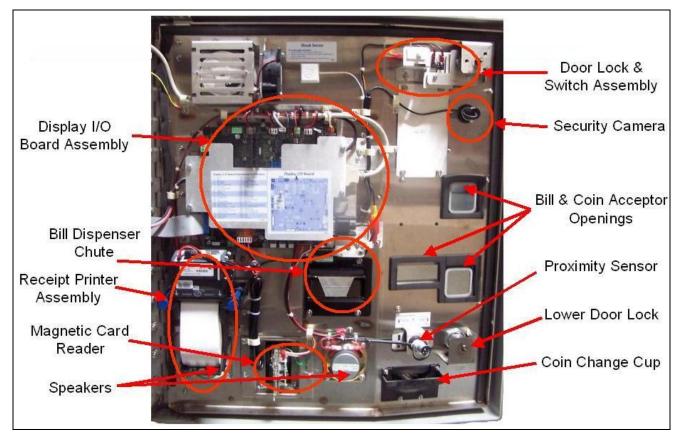


Figure 51.Components Inside the Portal TI Door

## 10.1.3Inside the Portal TI Unit Case

The following figure provides a block diagram showing the components located inside the Portal TI. This drawing is intended to provide general component location information only.





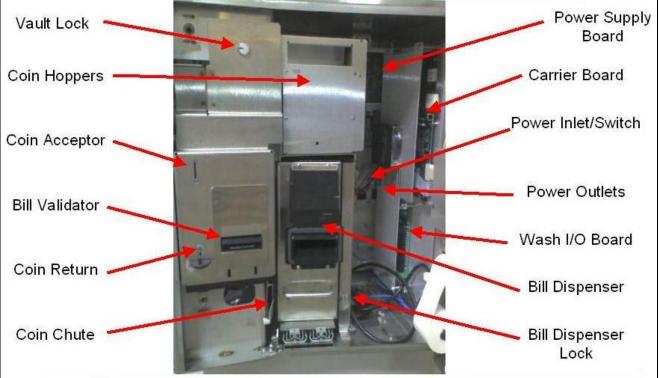


Figure 52. Block Diagram of Components Inside the Portal TI Case

Inside the Portal TI unit case, you will find the following sub-assemblies:

Carrier Board – This sub-assembly contains and protects the carrier board. It is located inside the Portal Case on the right-hand wall.

Wash IO Board – This board and mounting plate is located on the right-hand wall of the Portal TI case below the Carrier Board sub-assembly.

Power Supply – This sub-assembly provides 5V, 12V and 24V power to the components of the Portal TI.

Hopper Cage – This sub-assembly houses the main and optional coin hoppers.

Vault Door - This sub-assembly includes the vault door itself, a Medeco lock, the Coin Acceptor and the Bill Validator. Inside the door, the coin bucket receives coins from the coin acceptor.

**Miscellaneous IO Board** – This board is located inside the vault on the back wall.

### **10.1.4** Inside the Portal TI Cash Vault

The cash vault is secured by a Medeco lock, and is wired to the system alarm to provide greater security. Inside the cash vault you will find the bill stacker, Bill Validator, coin acceptor, coin bin and Miscellaneous IO board.

The Coinco Bill Validator logic board is mounted on the inside left wall of the Portal TI. It is mounted with the diagnostic LED facing forward for easier accessibility.

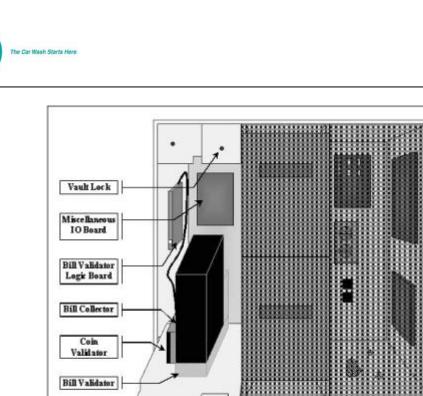


Figure 53. Block Diagram of Components Inside the Cash Vault

1111111111111

### 10.1.5System Cabling

System cabling comes into the Portal TI through the cable entrance ports located on the bottom right hand side of the unit. Wash cabling will be directly connected to the Wash IO Board at installation. The communications cable, if present, will be connected to the Carrier board at the Ethernet port.

## 10.2 Cleaning and General Maintenance

Vault Lock

The Portal's plastic casing may be cleaned with a 1 to 1 solution of water and Simple Green® concentrate. Use a plastic brush in conjunction with the Simple Green® solution to clean the unit. After cleaning, rinse the solution off the unit using a low-pressure stream of water. Dark Stains or colored gouges may be worked out of the Gray Plastic case or plastic door with a Steel wool pad or Brillo® pad.

Do not use a pressure washer to clean the unit.

Do not direct water -- except in a small, downward stream – into areas of the Bill acceptor, coin acceptor, receipt printer, bill dispenser chute, and credit card reader.

The following maintenance should be performed on the Portal TI every three months:

- 1. Remove the coin hopper from the unit.
- 2. Remove all coins from the hopper.
- 3. Use a damp rag to clean any metal dust that may have accumulated on the exit ramp.



- 4. Remove the two side screws that hold the bottom support bracket and pull the main hopper cube from the hopper assembly.
- 5. Use a Q-Tip or Iso-swab to clean the coin exit slot.
- 6. Remove the top part of the hopper by sliding the red lever on the side of the hopper downward. Slide the top part of the hopper upward to remove it.
- 7. Remove the hopper wheel and clean it with a damp rag.
- 8. Clean the inside of the hopper with a damp rag.
- 9. Reverse these steps to replace the hopper.

#### **10.3** Security Devices

The Portal TI includes a built-in alarm that is triggered by a shock sensor mounted on the door. The following sections provide operations, maintenance and troubleshooting procedures for these components.

#### 10.3.1Setting the Alarm

To set the alarm, close the door and then lock the unit. If it has been properly set, it will chirp once. If not, it will cycle 3 times and chirp the number of times corresponding to the input that is not at the appropriate level.

Number of Chirps	Incorrect Setting
1	Door Switch
3	Shock Sensor
2	Jumper J32 (spare input)

#### Table 1. Alarm Chirp Indications

If the door is opened without the alarm being disarmed, the alarm will sound for 30 minutes

If the shock sensor is shocked 3 times within a 30 second window, it will sound the alarm for 30 seconds.

#### 10.3.2Shock Sensor

The Portal TI is equipped with a shock sensor, located in the upper middle of the unit door, to detect a person attempting to vandalize or break into the unit. It is a small white box adhered to the door.

## 10.4 Bill Dispenser

The Bill Dispenser allows you to dispense cash from the Portal as change. Many customers choose to dispense \$5 bills as well as the \$1 coin and quarters. This provides the most change dispensing options for



the most common cash payment methods, and gives you the added flexibility in selecting wash prices. This configuration requires the Bill Dispenser and two hoppers.

## **10.4.1Bill Dispenser Location**

The bill dispenser is installed in lower portion of the hopper cage. The bill dispenser power cable connects to the spare power connector on the power distribution board, and to the Miscellaneous I/O board through the same type of connector used in the hopper.

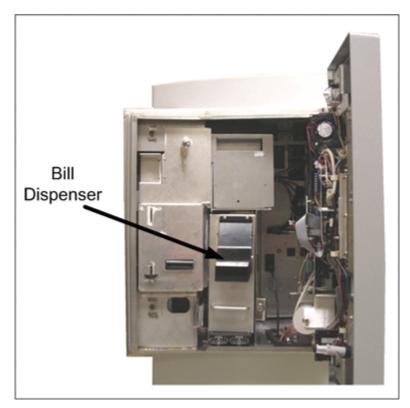


Figure 54. Bill Dispenser Location

### **10.4.2Bill Dispenser Security**

The bill dispenser can only be opened by using the key that fits the installed Medeco lock.

## **10.4.3Bill Dispenser Operations Components**

The following figure shows the bill dispenser with the primary components labeled.



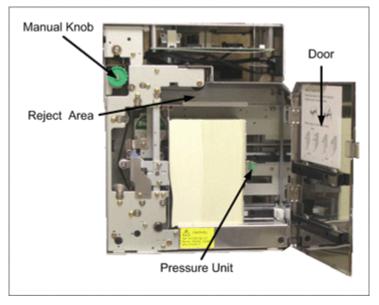


Figure 55. Bill Dispenser Parts

- **Manual Knob** This knob is used to advance the bill transportation devices manually in the event of a bill jam.
- **Reject Area** If the bill dispenser senses an error in the bills while dispensing (such as two bills instead of one), it will reject the erroneous bills and send them to the reject area instead of dispensing them.
- **Pressure Unit** This is the spring-loaded plate that holds the bills in place. There is a green handle attached, and it can be locked in the fully open position by sliding it all the way back when loading bills.

## **10.4.4Clearing Bill Dispenser Jams**

If there is a bill jam, you will need to remove the jammed bill and then reseat the bill dispenser. After removing the jammed bill, verify the bill dispenser is functioning properly using the Test Devices function of the Maintenance Mode at the Portal TI.

#### 10.4.4.1 <u>Removing a Jammed Bill from the Transportation Area</u>

- 1. While turning the manual knob, move the jammed bill to the transportation area as shown in the following figure.
- 2. While turning the manual knob, take out the jammed bill slowly.

 $\triangle$ 

Caution: If you pull the bill too hard, the belt will come off the pulleys.



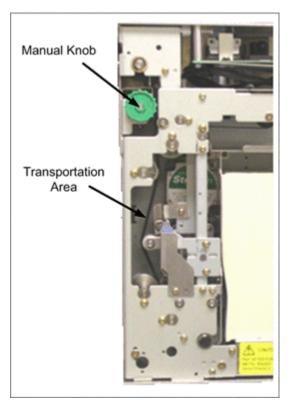


Figure 56. Manual Knob and Transportation Area

3. After removing the jammed bill, verify that the transportation belts are still properly aligned on their respective pulleys.

#### 10.4.4.2 <u>Removing a Jammed Bill from the Dispensing Area</u>

4. While pressing down the metal fitting of dispensing roller, turn the manual knob and gently remove the jammed bill.

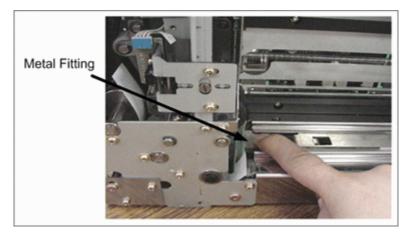


Figure 57. Removing a Jammed Bill



## 10.4.5Loading the Bill Dispenser

The first time the bill dispenser activates after being re-seated into the Portal TI, there will be a fivesecond delay while the dispenser initializes before it dispenses the bill(s). Normal dispense time (one to two seconds) will resume after this initial activation. After re-seating the bill dispenser, it is highly recommended that you dispense at least one bill using Maintenance Mode to verify operations and to initialize the bill dispenser.

To load bills, use the following procedures.

- 5. Open the Portal TI door.
- 6. Unlock the bill validator.
- 7. Pull the Bill Dispenser forward.
- 8. Rotate the bill dispenser clockwise.
- 9. Open the cassette door.
- 10. Hold the stack of bills firmly in one hand and fan them using your other hand to make sure no bills are stuck together. Repeat the process on both ends of the bill stack.
- 11. Remove any bills that are sticking out of the bill stack. The bill stack should be neat and orderly.

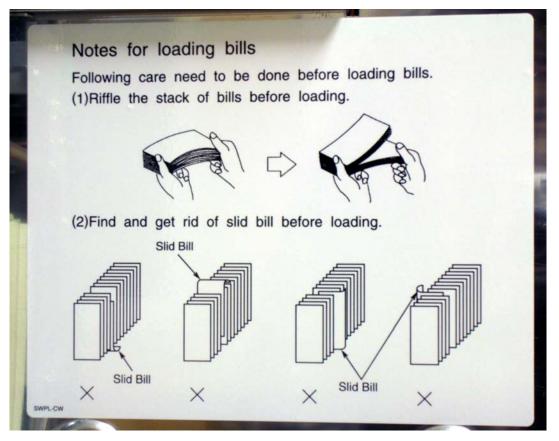
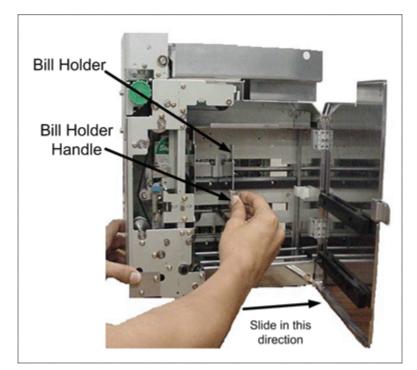


Figure 58. Loading Instructions





12. Slide back the spring-loaded bill holder until it locks.

Figure 59. Loading the Bill Dispenser

- 13. Insert the bills in groups of 100 (up to 1,200 new bills).
- 14. Slide the bill holder back into position.
- 15. Close the cassette door.
- 16. Rotate the bill dispenser counter-clockwise until it snaps into place.
- 17. Slide the bill stacker back into the Portal TI.





## 10.4.6 Maintaining the Bill Dispenser

The following photos show you how to clean the pick roller and the sensor in the bill dispenser.

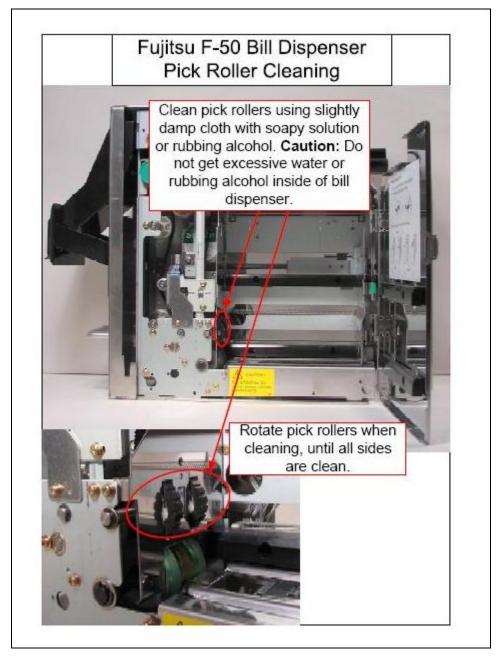


Figure 60. Bill Dispenser Pick Roller Cleaning

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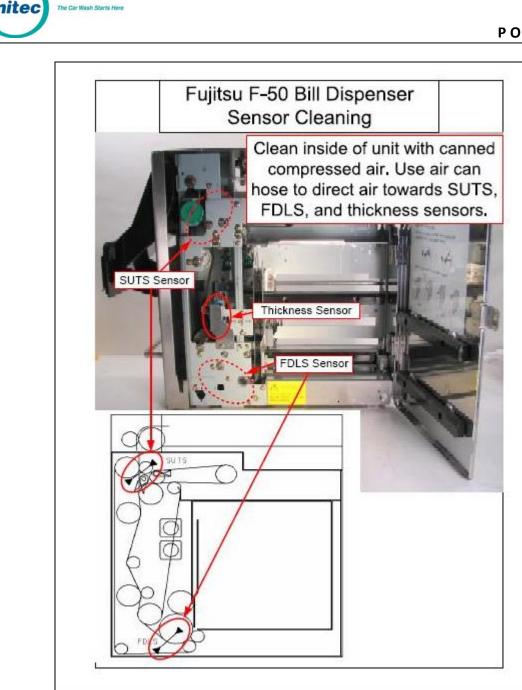


Figure 61. Bill Dispenser Sensor Cleaning

# 10.5 Bill Validator

The bill validator allows customers to pay for their washes using bills. The standard Portal TI comes equipped with the Mars bill validation unit. Units built prior to 2010 have Coinco bill validator units.



### **10.5.1**Mars Bill Validator

The Mars bill validator is provided as the bill validator from the manufacturer since 2010.

### 10.5.1.1 <u>Removing the Bill Stacker</u>

The bill stacker will hold up to 1,000 bills and is designed to allow quick and easy removal of stored money. To empty the bill stacker, hold the validator with one hand pushing the blue lock at the top of the validator with one of your fingers. With your other hand, lift the stacker upward to remove it.

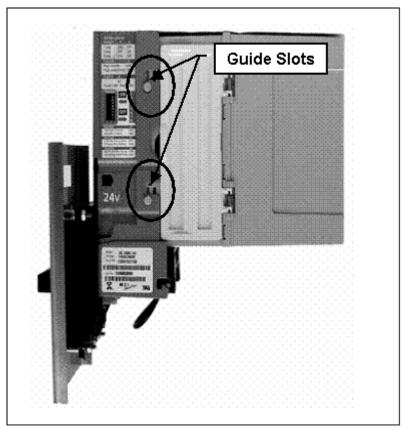


Figure 62. Mars Bill Validator/Stacker



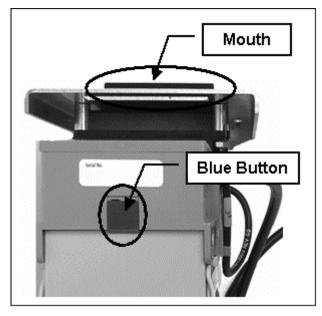


Figure 63. Mars Bill Validator—Top View

### 10.5.1.2 <u>Replacing the Bill Stacker</u>

To replace the stacker, perform the following steps:

- 1. Position the stacker behind the Mars Bill Validator with the hinged doors on the side, and the back of the stacker facing away from you.
- 2. Place the stacker against the bill validator.
- 3. Align the tabs on the bill stacker just above the guide slots on the bill validator.
- 4. Slide the stacker tabs into the guide slots, and then down until it is fully seated, as shown in the following figure.



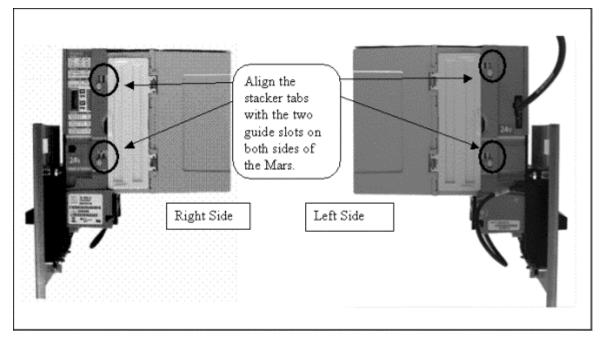


Figure 64. Mars Bill Stacker Replacement

## 10.5.1.3 Mars Bill Validator Flash Codes

The Mars Bill Validator is equipped with an internal diagnostic LED flash code system. This LED flash code system is used to alert the operator of a failure or to indicate a need for servicing.

The flash code LED is located in the lower section of the validator, below the stacker. See the following figure for the LED location.



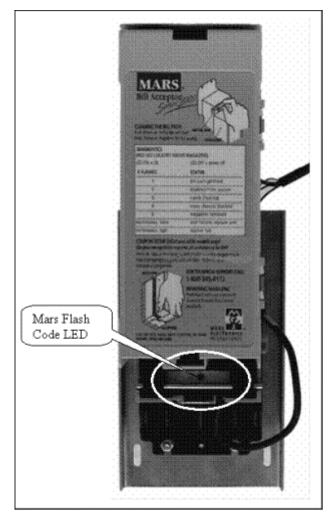


Figure 65. Mars Flash Code LED

The LED will repeat a specific number of flashes. Each number of flashes corresponds to a specific problem. The following table lists the meaning of each set of flashes. Many of these problems may be easily corrected without the need for technical assistance.

# Flashes	Diagnostic Code Description
1	Bill path jammed
2	Disabled from system
3	Needs cleaning
4	Cross channel blockade
5	Magazine (stacker) removed
Continuous slow	Unit failure, replace unit

### Table 2. Mars Bill Validator Flash Codes





# Flashes	Diagnostic Code Description
Continuous fast	Stacker full
LED on	Ok
LED off	Power off

### 10.5.1.4 Removing the Mars Bill Validator From the Portal TI



WARNING: Disconnect 115VAC – 120VAC power from the main power lines at the panel box before continuing.

Perform the following steps to remove the Mars Bill Validator.

- 1. Open the cash vault.
- 2. Remove the bill stacker.
- 3. On the inside of the vault door, remove the four 5/16" mounting nuts on the sides of the Bill Validator.
- 4. Disconnect the Mars Bill Validator from the cable leading to the Miscellaneous IO board.

#### 10.5.1.5 <u>Removing the Mars Bill Validator Lower Housing</u>

If necessary, the bill validator lower housing can be removed using the following procedures. The lower housing is the portion of the Bill Validator that sits just below the stacker and behind the bill mouth. The bill mouth is the part of the bill validator that is used to pull in and analyze the bills that have been inserted. Bills are pulled in by a system that draws them up into the main body. Once they have been pulled in, four photo-optic sensors are used to scan them and send the information to the electronics.

Perform the following steps to remove the Mars Bill Validator lower housing.

- 1. Remove the Bill stacker. (See Removing the Bill Stacker)
- 2. Reach under the bottom of the validator and locate a silver rod in the area below where the status LED is located.
- 3. Using your thumb, push the silver rod up toward status flash code LED.
- 4. Firmly grasp the top of the housing with your fingers and pull the lower housing toward the palm of you hand. (Be sure to keep steady pressure on the housing at all times during removal.)
- 5. Slide the inner housing out of the back of the validator, revealing the belts, pulleys and sensors.

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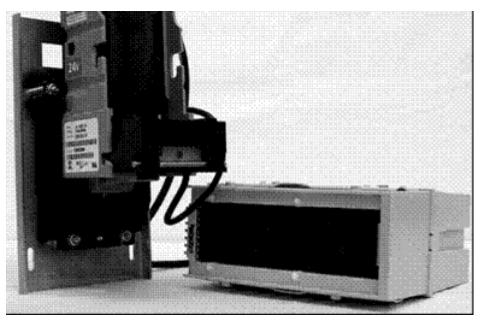


Figure 66. Mars with Lower Housing

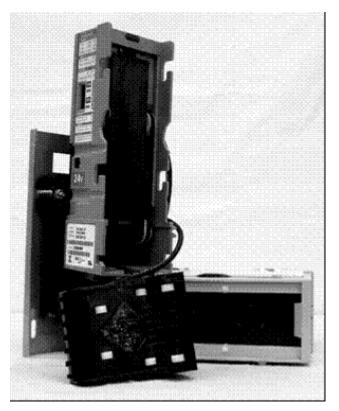


Figure 67. Mars with Lower Housing Removed



#### 10.5.1.6 <u>Cleaning and General Maintenance</u>

The AE2600 series will not need cleaning as often as magnetic sensing bill validators. If cleaning is required, use a soft cloth moistened with mild, non-abrasive detergent.

# 10.6 Card Reader

The card reader may be used with the Credit option or just for fleet cards and pass cards.

## **10.6.1Cleaning the Card Reader**

The internal card reader sensing devices accumulate dirt over time. As this happens, the credit card reader acceptance rate will begin to decline.

It is best to clean your card reader using card reader cleaning cards. These cleaning cards may be purchased directly from your distributor or from the manufacturer of the cleaner cards. The cleaner cards are Unitec stock #MS2031 and can also be purchased from Clean Team by calling 1-800-888-8830.

For the Panasonic card reader, insert and remove the cleaning card into and out of the card reader several times using both sides of the cleaning card because the Panasonic card reader can read the magnetic stripes from either side of the reader.

### 10.6.2Troubleshooting the Card Reader

The magnetic card reader typically reads both tracks 1 and 2. In nearly all card formats the important data is on track 2. Major credit cards encode the customer's name on track 1. In the event that track 1 is not read for a credit card, the transaction should still go through but the Portal will not capture the customer's name. In the Maintenance mode of the Portal TI you can swipe a card and read track 1 and track 2. Sometimes if the card is inserted and bent upwards, track 2 will not be read. Inserting and removing the card straight will alleviate this.

To determine whether the Card Reader or the Display I/O board is malfunctioning, refer to the following table.

Symptom	Possible Cause	Test	Resolution
	reader	Disconnect Card Reader connector from Display I/O Board. Short pins 1 & 7 and release. If you get a "Bad Card Read", the Card Reader is bad.	Replace Card Reader.

#### Table 3. Magnetic Card Reader Troubleshooting





Symptom	Possible Cause	Test	Resolution
	Bad Display I/O board.	Verify 5V power LED on display I/O board. Disconnect Card Reader connector from Display I/O Board.	Replace Display I/O Board.
		Short pins 1 & 7 and release. If you do NOT get a "Bad Card Read", the Display I/O Board is bad.	

# 10.7 Coin Acceptor

This component allows the Portal TI to accept U.S. quarters, dollar coins and up to four different bi-metal tokens.

## 10.7.1Coin Acceptor Cleaning and Maintenance

Check the coin-accepting system for proper operation each time you remove cash from the vault. Customers have been known to insert invalid coins, debris and bills into the coin box.

In addition, the two optical sensors must be cleaned periodically. Use a cotton swab daubed in isopropyl alcohol to wipe the inner wall area inside the first two inches of the coin slot.

If the unit malfunctions and a good cleaning does not solve the problem, reprogram the acceptor as described in Programming the IDX Acceptor.

## **10.7.2Programming the IDX Acceptor**

The unit comes equipped to accept either U.S. quarters or dollar coins. The unit will also accept sitespecific tokens.

In order to complete the programming you must have six of each of the tokens and coins you wish to accept. It is very important that you follow these directions exactly. The IDX acceptor will average the variances in these different sample coins during programming, and calculate a more accurate reference model. Using less than six different coins will invalidate the average variance generated by this process.

**Note:** The IDX can ONLY be programmed with the Portal TI at the **Test Devices - Test Coin Acceptor screen**. When inserting coins into the IDX, you must be sure to close the cover completely.

Please refer to the block diagrams shown below while programming the IDX coin acceptor.

X

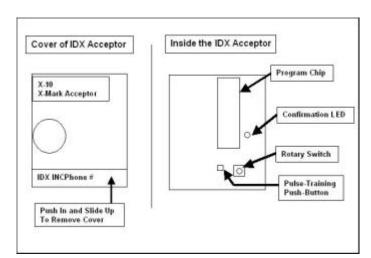


Figure 68. Outside/ Inside of the IDX

You must answer the following questions before proceeding with the programming of the IDX coin acceptor.

Do you want to accept tokens?

How many different tokens will your site have?

How much will each token be worth?

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Refer to the following table to determine which rotary-switch position corresponds to a particular coin output.

Coins	IDX Rotary Switch Position	Signal Line	Number of Output Pulses
Token 1	1	3	Determined by User
Token 2	2	3	Determined by User
Token 3	3	3	Determined by User
Token 4	4	3	Determined by User
\$1-Coin	5	2	1
Quarters	6	1	1

Table 4. IDX Program Configuration

## 10.7.3Programming the IDX to Accept \$1 Coins

The number of pulses is programmed by pressing the push-button the desired number of times prior to insertion of the sample/programming coins.

1. Set the rotary-switch to the position labeled number 5.



- 2. Press the button located immediately to the left of the switch once.
- 3. Drop six different dollar coins through the acceptor and verify that the light (LED) blinks after the last coin has been entered.
- 4. Move the rotary switch back to the position labeled '0'.

### **10.7.4Programming the IDX to Accept Quarters**

Follow the steps below to program the IDX to accept quarters.

- 1. Remove the front cover by pushing it in and up from the bottom right corner of the main body. (This is located near the phone number.)
- 2. Locate the rotary-switch and set it to the position labeled number 6.
- 3. Press the button located immediately to the left of the switch once.
- 4. Drop six different quarters through the acceptor and verify that the light (LED) blinks after the last quarter has been entered.
- 5. Move the rotary switch back to the position labeled '0'.

#### **10.7.5Site-Specific Tokens**

Before you begin programming, be sure that you have six of each token you plan to program. You are responsible for supplying your own bi-metal tokens. Tokens are not available through Unitec.

The Coin Acceptor accepts tokens ranging in size from .984'' - 1.125'' in diameter. When programming site-specific tokens, it is important that you take into consideration the following items:

Tokens with a diameter of .984" are commonly used at nationwide arcade/pizza stores. The IDX coin acceptor will accept these tokens if your site-specific token is the same size.

Compare your token size with any local arcade tokens prior to programming the IDX coin acceptor to accept your site token.

The IDX acceptor can be programmed to accept up to four different tokens. The value for each token is programmed in the Portal software based on how many pulses are sent on the token line.

To program the IDX to accept a single token, follow the instructions below.

- 1. Set the rotary-switch to position 1, 2, 3, or 4.
- 2. Press the button immediately to the left of the rotary-switch one or more times depending on the number of pulses you want that token to send.
- 3. Drop six sample tokens through the coin slot one at a time, and verify that the red light (LED) blinks several times after the last token has been entered.
- 4. Reset the rotary-switch to "0" and replace the front cover.

If more tokens are required, refer to Programming the IDX Acceptor to get the switch locations for that particular token, and then press the push-button the number of times that is equal to the number of pulses to be sent for that token.



### **10.7.6Erasing IDX Programming**

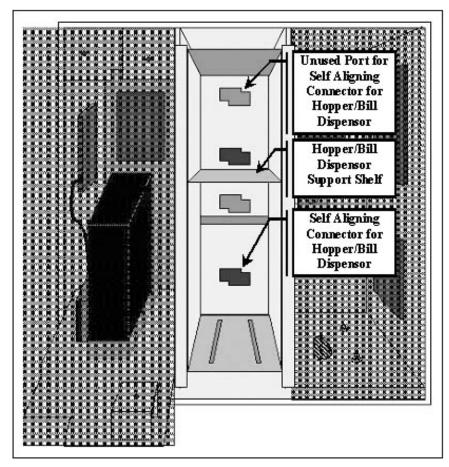
If you need to erase programming or start over, use the following procedure:

- 1. Remove the front cover from the IDX acceptor.
- 2. Set the rotary switch to the position that corresponds to the coin you wish to re-program or erase.
- 3. Depress the button located immediately to the right of the rotary switch only once.
- 4. Return the rotary switch to zero without passing any coins through the acceptor. This will erase the program that has been stored for that number.
- 5. Return the front cover to the IDX.

## 10.8 Coin Hopper

The Portal TI is engineered with multiple self-aligning connector ports located in the rear of the hopper cage. This allows up to three units to be installed simultaneously. The figure below shows a block diagram of a hopper cage designed to hold the Multiple Coin Dispenser option.

In order to remove the coin/bill dispensers, you must first open the cash vault door.





#### Figure 69. Block diagram of the Hopper Cage

The Portal TI is equipped with a Suzo Mark II coin dispenser, which is embedded in a proprietary Unitec design. The dispenser is able to hold/dispense up to 2,400 quarter-sized coins. It is located inside the Portal TI case in the hopper cage.

### **10.8.1Removing the Hopper**

To remove your hopper, pull the Hopper Drawer forward. As you pull it forward, lift on the rear to disengage the guide pin from the hopper cage.

### **10.8.2Filling the Hopper**

Note:When filling the hopper, be sure to enter a "Vault Event" in the Portal TI Software recording the<br/>amount of cash entered.

The large opening at the top of the coin hopper has been added to increase the holding capacity of the dispenser. The inclined plane that spans across the top half of the hopper assembly is used to distribute the weight of the coins. When pouring coins into the dispenser, you must direct the coins at this inclined plane to protect the moving parts at the bottom of the hopper. Follow the instructions below to fill the coin hopper.

- 1. Open the door and vault of the Portal TI.
- 2. Remove the appropriate hopper.
- 3. Pour the replacement coins into the large opening at the top of the hopper assembly. Remember to direct the coins toward the inclined plane.
- 4. When the coin level is close to 600 1200 coins, begin to add coins by hand. Using this method, coins will tend to slide into the dispensing wheel more easily, which will reduce the possibility of clogs and jams.

### 10.8.3 Changing the Dispense Value

**Note:** The Portal TI is shipped with the equipment required to modify the hopper to dispense the dollar coin.

If you want your unit to dispense the dollar coin, the coin-hopper must be modified to accommodate the larger coin. The dispense value of the Portal TI must also be changed to match the value of the dollar coin. The default value for this function is \$.25. See the Coin Dispenser Setup for information on programming the Portal TI to dispense dollar coins. For additional wheel and hopper sizes, see

Ø5



#### 10.8.3.1 <u>Modifying the Hopper</u>

Use the following procedures to modify the hopper to dispense the dollar coin:

**DISASSEMBLE THE HOPPER:** 

- 1. Remove the coin hopper by grasping it by the handle at the top and lifting up and forward. Remove the hopper from of the hopper cage.
- 2. Remove the three screws holding the hopper coin bucket in place.



Figure 70. Remove Hopper Coin Bucket

- 3. Gently lift the coin bucket from the hopper dispenser and set it aside. Be careful not to damage the sensor wire connected to the side of the coin bucket.
- 4. Separate the black hopper cube from the center of the metal body of the assembly by pressing in the round red locking tab while pushing the black hopper cube forward.
- 5. Slide the red locking clasp downward.

### PORTAL TI+



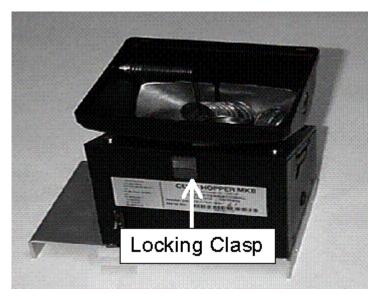


Figure 71. Hopper View - Removing the Hopper - Cube Top

6. Slide the top piece of the black plastic hopper up and off to expose the dispensing wheel.

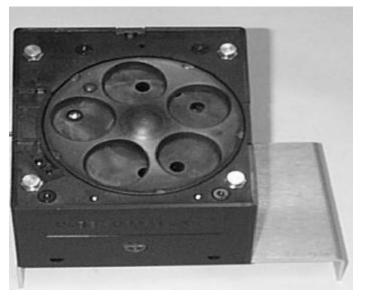


Figure 72. Hopper View - Top Removed

7. Remove the dispensing wheel.



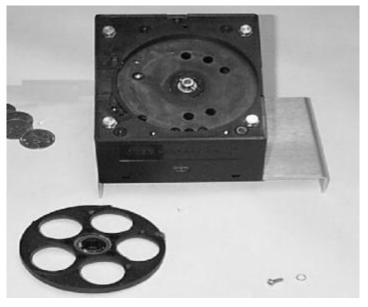


Figure 73. Dispensing Wheel Removed

8. Remove the guide arm cover from the coin exit opening.

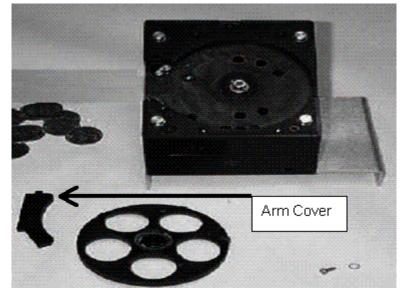


Figure 74. Guide Arm Cover Removed

- 9. Using a screwdriver, gently pry off the old hopper arm. Be very careful not to break the pins that hold the arm in place.
- 10. Place the new hopper arm into the slot exactly as the old one was.
- 11. Place the new hopper wheel into the plastic hopper exactly as the old one was.
- 12. Once the new guide arm and dispensing-wheel have been replaced, reinstall the coin guide arm cover.



- 13. Slide the black plastic top back onto the hopper-cube assembly. Securely latch it in place by locking the clasp.
- 14. Place the hopper-cube back onto the mounting bracket and snap the locking tab back into place.
- 15. Reattach the coin bucket by replacing the three screws you removed previously. Be sure that the coin exit opening of the hopper-cube is properly aligned with the exit chute of the metal housing.

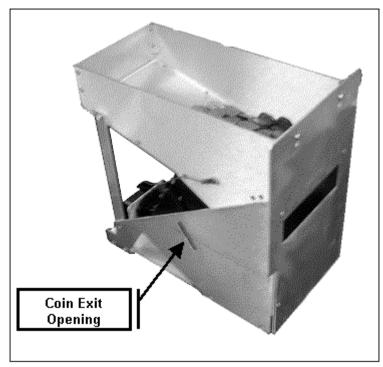


Figure 75. Hopper View - Coin Exit Opening and Chute



Additional wheel and arm requirements for optional coins and tokens for the Suzo MKII coin hopper are listed below. The second table lists Unitec part numbers:

	DIAMETER mm (in)	THICKNESS (mm/in)	Wheel	Arm
	18-18.99 (.775)	1.5-2.09 (.0608)	2	11
	19-22.09 (.7587)	1.5-2.09 (.0608)	2	А
	19-22.09 (.7587)	2.1-3.2 (.08126)	3	А
	22.10-23.89 (.8794)	1.5-2.09 (.0608)	4*	B1
	22.10-23.89 (.8794)	2.1-3.2 (.08126)	5	B1
Quarter	23.9-25.59 (.94-1.0)	1.5-2.09 (.0608)	4*	B2*
	23.9-25.59 (.94-1.0)	2.1-3.2 (.08126)	5	B2*
	25.6-31.0 (1.0-1.1)	1.5-2.09 (.0608)	8*	C1*
\$1 Coin	25.6-31.0 (1.0-1.1)	2.1-3.2 (.08126)	9*	C1*
"Large Tokens"	27.9-31.0 (1.1-1.18)	1.5-2.09 (.0608)	8*	C2*
	27.9-31.0 (1.1-1.18)	2.1-3.2 (.08126)	9*	C2*
	30.1-31.0 (1.18-1.22)	1.5-2.09 (.0608)	8*	5
	30.1-31.0 (1.18-1.22)	2.1-3.2 (.08126)	9*	5

Notes:

- 1. Wheels and inserts with an \* are components currently supplied. Other sizes are special Order
- 2. Green shaded rows are recommended sizes to be supported
- 3. Quarter, \$1 coin and Large Token rows indicate combinations of wheels and arms specified in the installation manual

Coin	Wheel Part #	Arm Part #
US/Canadian Quarter	#4 – OM1306	B2 – OM1307
US/Canadian \$1 Coin	#9 – OM1086	C1 – OM1085
.882" Diameter token	#4 – OM1306	B1 – OM1313
.984" Diameter token	#4 – OM1306	B2- OM1307
1.00" Token	#8 – OM1304	C1 – OM1085
1.125" Token/ Canadian \$2	#8 – OM1304	C2 – OM1305



# 10.9 Credit Modem

With the purchase of the dial-up option, you will receive a DataTran modem. This modem receives power from one of the 115VAC outlets inside the unit. These outlets should only be used for Unitec certified optional equipment and are limited to 500mA output each.

The modem is connected to the Carrier board via a serial cable. One end of the cable is attached to the modem and the other end to the Carrier board. The Carrier board connector is labeled "Channel A, CN11" (the top serial port on the carrier board).

The phone line connection is provided via a RJ-11 jack on the modem.

Each modem is pre-programmed with the merchant account information before it is shipped. You must have your merchant account set up in advance for this to be done.

# 10.10 Proximity Sensor

## **10.10.1 Proximity Sensor**

The Portal TI uses an ultrasonic proximity sensor, mounted on the lower right-hand corner of the interior side of the door, to detect the presence of a customer's vehicle. The distance at which the proximity sensor senses a vehicle can be adjusted by turning the small Phillips-head screw located on the back of the proximity sensor.

To adjust the proximity sensor:

- 1. Place a flat surfaced object approximately 12" x 12" in front of the proximity sensor at the MAXIMUM distance you wish the proximity sensor to detect approaching vehicles (at least 36").
- 2. Briefly press the TEACH button. The yellow LED will flash off then on again after 2 seconds.
- 3. Place the flat object in front of the proximity sensor at the MINIMUM distance you wish the proximity sensor to detect approaching vehicles (at least 6").
- 4. Briefly press the TEACH button. The yellow LED will flash off then flash on 5 times.
- 5. The settings are now saved in the proximity sensor.

## 10.11 Sound System

The audio amplifier has a volume knob on the top of the Display I/O board. Turning the knob counterclockwise turns the volume down. Clockwise turns it up. Speaker output connectors are J4 (Left) and J5 (Right).

Speaker wires are on pins 1 and 3 of each connector.

### **10.11.1** Troubleshooting:

#### Table 5. Sound System Troubleshooting



Symptom	Possible Causes
One side of audio is not working	If you suspect a failed speaker, you should try swapping speakers to see if it is the speaker is at fault or if the display I/O board is at fault.
Distorted audio	This is typically due to a faulty speaker. If the audio is still playing in a distorted fashion, first check the ribbon cable going from the carrier board to the display board. If that is not the cause, replace the display I/O board.
No Audio	Bios On main carrier board is faulty CPU board not seated properly on main carrier board CPU board on main carrier board faulty Blown amplifier on display I/O board.

# 10.12 Testing Door Switches

The Main Door switch is the white switch next to the top lock. This switch closes the circuit when the door is closed and opens the circuit when the door is open. The Door LED (LED11 on the Display I/O board, located just under J31) will be lit when the circuit is closed.

The Main Door Lock switch is the black switch on the lock assembly. This switch closes the circuit when the door is closed and locked, and opens the circuit when the door is open. The Lock/Arm LED (LED 6) is located just under J19 on the Display IO board. The Lock/Arm LED is lit when the Main Door Lock switch circuit is closed (door is unlocked).

The Maintenance mode has Input tests to show the status of each input as read by the software. If the Maintenance mode indicates a problem with one of the switches, perform the following procedure:

- 1. Unplug the affected switch.
- 2. Use a screwdriver to short out the pins on the corresponding board. Shorting the pins should cause the LED to turn on.
- 3. If the LED does not turn on, there is something wrong with the board. If the LED does turn on, but the switch is not working correctly, then there is something wrong with the switch (or possibly a mechanical part that interacts with the switch).



## 10.13 Thermal Printer

The Portal is equipped with the Hecon thermal printer. The Hecon printer uses paper rolls 2.28" to 2.36" wide by up to 400'. The thermal printer is capable of printing graphics and barcodes, as well as system reports.



Figure 76. Hecon Printer

The following sections contain information and procedures important for peak operating performance.

- Replacing the Printer Paper
- Cleaning the Head
- Clearing a Paper Jam
- Manually Printing a Self-Test

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## 10.13.1 Replacing the Printer Paper

Replace printer paper when you see a red mark running down the side of the receipt or the unit is reporting Paper low.

1. Insert the new paper roll on the paper carriage at the bottom of the printer. The paper roll should be oriented such that the end of the paper is at the top of the roll. The paper will automatically feed into the printer when the power is on.

### 10.13.2 Clearing a Paper Jam

Follow the steps below to clear a paper jam.

- 1. Open the Portal door.
- 2. Locate the blue locking arms on the sides of the printer assembly, pull them out and remove the main printer assembly by lifting it up and out.
- 3. Locate and remove the paper jam.
- 4. Once the jam has been dislodged, replace the main printer assembly and relock the blue locking arms.
- 5. Feed the paper into the slot marked "Paper Insert."
- 6. Test the printer.

#### 10.13.3 Manually Printing a Self Test

If you ever question whether the printer is functioning properly, you may have the system print a self-test page. This printout will cycle through each available character. If the test prints completely and the printing is legible, this is considered a passed result.

To test the printer through the software, open the Sentinel door and login to the Maintenance Mode. Press the Test Hardware button then Test Printer. The printer will print a self test.

## 10.14 The Token Bucket

You can empty the bucket by grasping it firmly at the top and lifting it up and out of the Portal TI vault. When returned to the vault, the bucket locks into an upright position using a bracket on the floor of the Portal TI.