

PROGRAMMING

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Wayne Fusion Console P/N 940037

Programming User Reference Software Rel. 2.1.x

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# **1** INTRODUCTION

Access to the administration of the Fusion ® is done through a web browser such as Internet Explorer, Mozilla or Netscape. To start the application, you must enter the Fusion® IP address in the address bar of the browser. You will then see the login screen. The Fusion IP address is provided during system installation and is usually 192.168.1.20. Login using **http://192.168.1.20** and press <enter>.

Login - Microsoft Internet Explorer		
File Edit View Favorites Tools Help		A.
🕲 Back * 🐑 * 🗷 🗟 🏠 🔎	Search 🤺 Favorites 😧 🔗 🎍 🔜	8
Address 🗃 http://192.168.1.20/Security/Login.p	hp?ret_link=%2F&type=notLogged	Go Links 🎽
	Login	
	Password	
	Login	
		×
Done		🌒 Internet

Figure 1-1 Login Screen

# 2 LOGIN

I.

The first time you login, you will do so with a user already created at the time of installation. Initially there will be one user called ADMIN. The ADMIN user can be edited, modified or deleted. The ADMIN user exists primarily to configure the system and create new users. To login, enter the user name in the "Login" field and the corresponding key in the "Password" field. When logging in as ADMIN for the first time, enter **Dresser3141** and press the **Login** button. If all login information is correct, you will next see the Fusion home page. If you enter an invalid username or password, you receive an error message on the login page.

DRESSER WAYNE	
Login	
Login	
Password	
Login	

Figure 2-1 Login Window

If the Fusion controller is not operable at the time of login, an error message will be displayed like the example below, in this case a communications error.

Login	DRESSER WAYNE	
Access Denied		
Login	ADMIN	
Password		
	Login	

Figure 2-2 Login Error

Once the user has logged in successfully, the home page will be displayed, where you can see the name of the authenticated user.



Figure 2-3 Home Page

**NOTE:**The availability of different features and menu options may vary according to the users' security level and software module licenses purchased.

# 3 SECURITY

### 3.1 Security Scheme

Fusion has a security scheme that provides users, roles (cashiers, manager, etc.) and actions (allowable functions). A user can belong to zero, one or more roles and also have zero, one or more associated actions. A role can have zero, one or more associated actions.



Figure 3-1 User Layout

# 3.2 Roles



Figure 3-2 Roles Menu Selection

The roles exist for grouping a number of actions permissible by one or more users.

For example, when there are several cashiers working at the service station, you can define a "role" and assign all the necessary permissions for the required actions needed for this role, and then assign users for this group to avoid having to define individual users and assign user actions.

During the installation process, the system will automatically create the role "admin", with broad permissions to be able to continue with system configuration. This role can then be modified or deleted if necessary.

#### 3.2.1 Creating a New Role

To create a new role, select the link "Add New", as shown in the following example.

List of	Roles
<u>Role ID</u>	Role Description
<u>ADMIN</u>	Administrators
	Add New

Figure 3-3 Creating a New Role

Fusion will then display the following form. Enter a unique ID of the Role (Assign a description of the role. This must be a unique ID as two roles with the same ID are not allowed.) Next, enter a description. For this example we will use the ID "Cashier1" and description "Cashier 1st Shift" Then select the "**Add**" button. See the following figure.

Role ID	Cashier1	
Role Description	Cashier 1st Shift	

Figure 3-4 Select Add

This establishes the role without any associated actions. To add actions to be associated with the role, select the Role ID, in this case "**Cashier1**".



Figure 3-5 List of Roles

The system will display in a table on the left labelled "List of Access granted" showing access permissions granted, and another to the right labelled "List of Not Allowed Accesses" showing access permissions not granted. Note that these tables can be quite large have multiple pages. Scroll to the bottom of the table to go access the link to additional pages. See the following example.

List of Access granted			List of Not Allowed A	ccess	ses	
Action Id	<u>Rights</u>	Take out	Description	Add	Allowed	~
Acces Payment Type Configuration	Allowed		Access Device Configuration			
Access and send transmission batchs	Allowed		Access Fleet Accounts			
Access Configuration Report	Allowed		Configuration	1000		
Access Customer Accounts Settings	Allowed		Access Fleet Delete Balances Configuration Model			
Access Customer configuration	Allowed		Access Fleet Limit configuration			
Access Customer/Taxes Group configuration	Allowed		Access Fleet model configuration			
Access Delete Settings	Allowed		Access Fleet product			
Access dip reading tanks table	Allowed		configuration	-		
Selec	t All T	Take out	Report			
		<u> </u>	Access Fleet time restriction configuration			
			Access fleet zone profile configuration			
			Access Forecourt General Model Behavior			
			Access Forecourt Level Model Configuration			
			Access Forecourt Pump Status Model			
Link to ad pages —	ditional		Access Forecourt Service Modes Model Configuration			
			Access Forecourt Status			
			Ascess Generic Configuration			
			First Prev 12345678910 of 3	10 <u>Nex</u>	Last Select	All Add

Figure 3-6 Permissions Window

To add permissions you should select the type of permission from the table "List of Not Allowed Access" and select the **Add** box then select the **Add** button. To remove permissions you should select the type of permission from the table "List of Access granted" and select the **Take out** box then select the **Take Out** button.

The types of permissions that can be granted are:

- Allowed: The user who belongs to this role can perform the action (this is selected by default).
- **Requests Authorization**: The user who belongs to this role can not perform the action, but with authorization from a user that does have permission, the action can be allowed.

**NOTE:** At the time of this manual's publication, the implementation of the permission type "Request Authorization" was still in development.

Select each of the permissions to add, by selecting the corresponding box.

You can select multiple permissions at once to be added, provided these are on the same page. You must make all the selection that you want from one page and then select the **Add** button. To add permissions for different pages, you must repeat this step for each page. To remove permissions for a role, you must make your permission selections from the "List of Access granted" table on the left and then select the **Take Out** button.

#### 3.2.2 Editing a Role

To edit an existing role, you proceed in the same way as when creating a role except that when you are at the "List of Roles" table, you should select the Role ID from the left column that you want to modify. The same tables as in Figure 3-6 will be displayed. Make the necessary modifications to the permissions and then select the **Take Out** button or the **Add** button depending on what modifications you are making.

Role ID	Cashier1	
Role Description	Cashier 1 st Shift	

Figure 3-7 Add/Edit Roles

## 3.2.3 Deleting a Role

To delete an existing role, select the role to delete under the List of Roles table. Next, select the **Delete** button in the Add/Edit Roles table.

Coloct the vale to delete	List of	Roles	
Select the role to delete	<u>Role ID</u>	Role Description	
there	<u>ADMIN</u>	Administrators	
then	Cashier1	Cashier 1st Shift	
select the <b>Delete</b> button		Add New	
Add/Edit Ro	oles		
Role ID	Gashier1		
Role Description	Cashier 1st S	Shift	
		Submit	elete Cancel

Figure 3-8 Deleting a Role

The system will then require a confirmation message with options "OK" and "Cancel".

# 3.3 Users



Figure 3-9 Users Menu

Users are the people who log into the system to perform administrative functions or to perform sales.

During the installation process, the system will automatically create the user "ADMIN", related to the role "admin". This user has broad permissions to be able to perform system configuration tasks and to create other users.

# NOTE: Wayne recommends that the ADMIN user never be deleted. Doing so can adversely affect the operation of your Fusion system.

#### 3.3.1 Create a New User

To create a new user, select on the link "Add New", as shown in the example below.

List of	Users Security
<u>User Id</u>	<u>User Number</u>
<u>ADMIN</u>	1
GUEST	100000
	Add New

Figure 3-10 Add New User

You are then prompted to enter a User ID and a User Number. The ID will be referenced when performing administrator duties from the browser, while the number is only useful for accessing the console operation and accessed from the keypad on the screen.

For this example we will use the User ID "John R" (responsible for the evening shift) and User Number 25. Then select the "Add".

Add/Edit	Users Securi	t <b>y</b>
User Id	John R	
User Number	25	
		Add Cancel

Figure 3-11 New User

This way the user "John R" is created, the password is not yet been set. The user must then log in and change the password. As we saw in the description of system security, users can have zero, 1 or more roles, and zero, 1 or more associated actions. That is why we now select the User Id "John R" to see the roles and access permissions available for programming.

				.,	Fusion D	ate: 17/4/200	9 5:42:06	
		Configuration	Operation	Reports	POS		Security	
	HOME > Security > User	·s						
				alat /mata		* <b>1</b>		
	List of Users Seci	urity	4	Add/Edit	Users Secur	ity		
		1	U:	ser iu	John R			
	GUEST	100000	U	ser Number	25			
	John R	25		BI	ank Password	Submit	Delete	Cancel
ssianina	Add New							
oles			_					
	List of User Roles	5	1	\dd/Edit	User Roles			
$\mathbf{A}$	Role		R	ole Selec	t Value 🛛 🔽			
	No records				Add Cancel			
	Add New							
000000								
licesses	List of Access gra	anted	n	ist of No	ot Allowed Ad	cesses		
(ccesses	List of Access gra	anted ake out	L	ist of No.	ot Allowed Ac	Cesses	owed	~
ACCESSES	List of Access gra Action Id Rights T No records	anted ake out	L D A, C	<b>ist of N</b> escription cces Paymer onfiguration	ot Allowed Ac	Cesses Add All	owed	~
	List of Access gra Action Id Rights T No records Select All Ta	anted ake out ke out	L D Ar C A ba	ist of No escription cces Paymer onfiguration ccess and se atchs	ot Allowed Ac	Add All	owed	~
Accesses	List of Access gra Action Id Rights T No records Select All Tal	anted ake out ke out	D Ar Ar Ar	ist of No escription cces Paymer onfiguration ccess and se atchs ccess Config	ot Allowed Ac It Type Ind transmission uration Report	Add All	owed	~
ACCESSES	List of Access gra Action Id Rights T No records Select All Tai	anted ake out ke out	L D A, C C A A A S S	List of No escription cces Paymer onfiguration ccess and se atchs ccess Config ccess Custor ettings	nt Type nd transmission uration Report ner Accounts	Add Alla	owed	~
	List of Access gra Action Id Rights T No records Select All Tal	anted ake out ke out	L D Ar D Ar D S Ar S	ist of No escription cces Paymer onfiguration ccess and se atchs ccess Config ccess Custor ettings ccess Custor	nt Type Ind transmission Int Accounts Iner Accounts	Add Alle	owed	
	List of Access gra Action Id Rights T No records Select All Tai	anted ake out ke out	L D Au C C Au B S S Au S S Au Au S	List of No escription acces Paymer onfiguration access and se atchs access Config access Config access Config access Custor ettings access Custor access Custor access Custor access Custor	nt Type Ind transmission Ind transmission Inter Accounts Iner Configuration Iner/Taxes Group	Add Alla Add Alla Constant Alla Add Alla Al	owed	v
	List of Access gra Action Id Rights T No records Select All Tal	anted ake out ke out	L D A C C C C C C C C C C C C C C C C C C	List of No escription ccess Paymer onfiguration ccess and sea tachs ccess Config ccess Custor ettings ccess Custor ccess Custor onfiguration ccess Delete	at Type Ind transmission Ind transmission Intransmi	Add All Add I Constant Add All All All All All All All All	owed	v
	List of Access gra Action Id Rights T No records Select All Tal	anted ake out ke out	L D Ar C A A D D A A A A A A A A A A A A	ist of No escription cces Paymer onfiguration ccess and se atchs ccess Config ccess Custor ettings ccess Custor ccess Cust	at Type at Type and transmission uration Report ner Accounts ner configuration ner/Taxes Group Settings Configuration	Add All Add All C C C C C C C C C C C C C C C C C C	owed	N
	List of Access gra Action Id Rights T No records Select All Tal	anted ake out ke out	L D A C C A C A A A A A A A A A A A A A A	ist of No escription acces Paymer onfiguration access and sea atchs access Config access Costor onfiguration access Custor onfiguration access Delete access Device access dip rea	at Type Int Type Ind transmission uration Report ner Accounts ner configuration ner/Taxes Group Settings Configuration ading tanks table	Add All Add All C C C C C C C C C C C C C C C C C C	owed	~

Figure 3-12 New User Programming

Here we see that the screen is divided into two horizontal parts. The first part is the allocation of roles, while the second part is the assignment of access permissions for specific actions.

To assign a new role to the user, select the role from the Add/Edit User Roles table and select the **Add** button.



Figure 3-13 Add New Role

Once done, you can view the roles assigned from the table "List of User Roles" in the left column.

To remove an assigned role you must designate the role of the current user by selecting the role that you want removed in the left column. Next, select the **Delete** button in the table "Add/Edit User Roles" which is in the right column.

List of Liser Poles	Add/Edit User Roles
Role	Role Select Value 💌
Cashier1	Add Cancel
Add New	

#### Figure 3-14 Review Roles

To assign permissions to user actions which are not included within the current role that has been assigned to the user, modify the two tables at the bottom of the page in the same way that you did in Figure 3-6.

### 3.3.2 Blank Password of the User

When a system user forgets their password, or for some reason they want it to be erased, just select the user from the "List of Users Security" table then select the **Blank Password** button from the "Add/Edit Users Security" table.

	Add/Edit Users Security		
Diamis Deserveral	User Id	John R	
Blank Password	User Number	25	
	BI	ank Password Submit Delete Cancel	

Figure 3-15 Blank Password

After this action, the user in question must login to the system without the password, then change it.

## 3.3.3 Change the Password of the User

When the user is logged into the system and wants to change their password, you must access the **Password Change** selection under the **Security** tab.



Figure 3-16 Password Change Selection

There will be 4 fields in the Password Change window. The first is the User Id, which can not be edited. Next, enter the Old Password then the New Password and then repeat the New Password again (to check that has been entered correctly). Once all the information has been entered, select the **Submit** button.

User Id	ADMIN
Old Password	
New Password	
Repeat Password	

Figure 3-17 Password Change

If there are any errors during data entry, they will be shown in the table, as follows:

Password Change					
The password is invalid					
User Id	ADMIN				
Old Password	••••				
New Password	•••				
Repeat Password	•••				
	Submit				

Figure 3-18 Password Change Error

The most common errors are:

- **The password entered is invalid**: The password entered is different from the current password.
- **Passwords**: The passwords entered in the "New Password and Confirm Password do not match.
- Communication Error: The system is unable to make the change at this time. Try again later.

#### 3.3.4 PCI Password Security

When you want to enable/disable PCI compatible passwords, go to Security and select Security.



Figure 3-19 PCI Password Security

Select **Disabled** or **Enabled** from the PCI Password Security to turn on or off the complex PCI Password Security requirement. See the following example.

PCI password security	Select Value 💌	
	Select Value	
	Disabled	

Figure 3-20 PCI Password Security Enable/Disable

# 4 CONFIGURATION

DRESSER WAYNE	ser: 🙎 ADMIN (en)	r: 🙎 ADMIN (en) Store: Tom's One Stop(en) number: 12345678 Fusion Date: 17/4/2009 6:06:46 🔀 Logout			
TEOSION	<u>Configuration</u>	Operation	Reports	POS	Security
HOME > POS > Reports > Ta	Generic 🔫				
	Devices		_		
Search Tax Configur	Maintenance			Conorio	
Taxee Id	Payment Types			Generic	
	Prices				
<u>Clear</u>	Others				

Figure 4-1 Configuration Menu

### 4.1 Generic

The generic configuration, as its name suggests, contains general parameters that affect the behavior of the entire system. Usually these parameters are changed once during system installation, and are unlikely to need modification.

DRESSER	WAYNE	er: ADMIN (en)	Store: Tom's One Stop(en)	number: 12345678	Fusion Date: 17/4/2009 6	:07:31 🔀 Logout		
THOS		Configuration	Operation	Reports	POS	Security		
HOME > Configur	HOME > Configuration > Generic							
Search Gen	eric Parai	neters						
module Selec	t Value	*						
description								
			Search					
Send new Contigura	ition to Fusion							
List of Gene	ric Param	eters						
module	sub-group	description	value	Tip				
Attendant Tagging	general	Payment Method	CASH	Pay wit	ment method assigned t n a TAG	to a sale authorized		
Autocalibration	general	Table Trigger	75	Per	centage of the tank with	values in order to end		

Figure 4-2 Generic Configuration

Each link under the column **Description**, will open a new window below the "List of Generic Parameters" table. For example, if the parameter is associated with the configuration of a device on the forecourt, the screen that opens will directly modify the associated parameter value, but if the parameter is associated with a device such as a dispenser, then it will open another table presenting the different dispensers that are configured in the system.

HyperPIB	general	Serial Port	/dev/ttyS0	Serial Port to which the clients will be connecting. If the communication is not Serial		
HyperPIB	general	Serial Secondary Port		Serial Secondary Port to which the secondary client will connect. If the communication is not Serial		
HyperPIB	general	Monitoring Port		Serial monitoring port where all communication will be replicated		
HyperPIB	general	Baud Rate	2400	Baud Rate of the serial port. If the communication is not Serial		
HyperPIB	general	<u>Write Interval</u>	0	Time (in milliseconds) to wait between bytes being written. If the POS is too slow		
HyperPIB	general	Authorization Timeout	10	If a sale has not started		
HyperPIB	general	Interlock Timeout	10	How many time in seconds the pump can be locked. Zero second means forever.		
		First Pre	<u>1234</u> of4	Next Last		
Add/Fait 0	Program parameter values					
Module	ForecourtMa	nager				
Parameter	Volume deci	mal ontion				
Param Value	1 - 3.3 💌					
		Submit Cancel				

Figure 4-3 Generic Configuration cont.

If you select a link whose values affect devices, this will generate a secondary table similar to that shown in the figure below, where each link enables the modification of what is displayed in the right column.

List of V	alues		
Param Value	value		
1	25	•	
2	25		
Add/Edi	Gene	ric parameters value	s
Module	Flow Con	trol	
Device ID	1		
Parameter	ALARM LO	DW FLOW	
Param Value	25		
		Update All Submi	t Cancel

Figure 4-4 Add/Edit Generic Values

The various parameters of the generic configuration are:

I

## 4.1.1 Flow Control

Search	Generic Parameters	
module	Flow Control	
description		
_	Search	

Send new Configuration to Fusion

List of	Generic Pa	arameters		
module	sub-group	description	value	Тір
Flow Control	device:pump	WARNING LOW FLOW	DEVICE DEPENDENT	ON WHAT FLOW SHOULD A WARNING BE ISSUED? (0 TO AVOID CONTROL)
Flow Control	device:pump	ALARM LOW FLOW	DEVICE DEPENDENT	ON WHAT FLOW SHOULD A CRITICAL ALARM BE ISSUED? (0 TO AVOID CONTROL)
Flow Control	general	OPERATING DAYS FOR CALCULATION	3	HOW MANY DAYS TO USE ON CALCULATION OF MINIMUM FLOW RATE

#### Figure 4-5 Flow Control Parameters

Groups the parameters related fuel flow within the dispenser. Each level of restriction is used to send information to Nagios through the service, if you have it.

• Warning Low Flow: It is able to be configured for each pump, and indicates the level of flow for the pump that would cause a warning. If you set a value of 0 (zero), then the parameter is not monitored for that device.

• Alarm Low Flow: It is able to be configured for each pump, and indicates the level of flow for the pump to cause a critical alarm. If you set a value of 0 (zero), then the parameter is not monitored for that device.

• **Operating Days for Calculation**: The number of days on which the hose was operational (must have at least 1), the system takes into account to submit information to Alarm Transfer Agent for alerts or alarms.

Examples:

1) Alert Pump 1 - Minimum Flow = 30

- Day 1 Hose Flow = 28
- Day 2 Hose Flow = 25
- Day 3 Hose Flow = 27

The system sends an alert to Alarm Transfer Agent.

2) Alert Pump 1 - Minimum Flow = 30

- Day 1 Hose Flow = 28
- Day 2 Hose Flow = 31
- Day 3 Hose Flow = 27

The system sends an alert to Alarm Transfer Agent.

## 4.1.2 Forecourt Manager

Search Geno module Forec description Send new Configura	eric Paramet ourtManager ation to Fusion	ers	ch	Select ForecourtManager
List of Gene	ric Paramete	rs		
module	sub-group	description	value	Тір
ForecourtManager	device:pump	List of PCs to hide	DEVICE DEPENDENT	List of names of PCs where to hide this pump. Separated by commas (
ForecourtManager	general	Site number	12345678	Site number identification
ForecourtManager	general	<u>Site name</u>	Tom's One Stop	Site name
ForecourtManager	general	Fiscal site name		Fiscal site name
ForecourtManager	general	Site address	1234 Main Street	Site address
ForecourtManager	general	<u>Site address (2)</u>	Austin, Tx	Second site address line
ForecourtManager	general	<u>Site address (3)</u>		Third site address line
ForecourtManager	general	Fiscal ID		Fiscal identification number
ForecourtManager	general	Country	USA	Name of the country where the site resides
ForecourtManager	general_advanced	Amount decimal option	3 - X.2	Amount decimal option
ForecourtManager	general_advanced	Volume decimal option	1 - 3.3	Volume decimal option
ForecourtManager	general_advanced	PPU decimal option	4 - 1.3	PPU decimal option
ForecourtManager	general_advanced	Minimum sale volume	0.100	Minimum volume of a sale to consider it valid
ForecourtManager	general_advanced	Maximum sale volume	40000.00	Maximum volume of a sale to consider it valid

Figure 4-6 Forecourt Manager Parameters

Groups the parameters according to the overall system management, data presentation and data from the forecourt.

Here are the most important parameters, which due to their complexity, require further explanation than what is given by the parameter itself.

- \* **Amount Decimal Option**: Parameter indicating the number of decimals in the amount of the sale. This parameter is valid if the pump does not have any parameters in the system programming for that purpose. The value indicates the number of decimal digits of the amount indicator of the pump.
- \* Volume Decimal Option: Parameter indicating the number of integers and decimals in the volume of the sale. This parameter is valid if the pump does not have any parameters in the system programming for that purpose. The value indicates the number of digits and decimal integers of the volume indicator at the pump.
- \* **PPU Decimal Option**: Parameter indicating the number of integers and decimals in the price of fuel. This parameter is valid if the pump does not have any parameters in the system programming for that purpose. The value indicates the number of digits and decimal integers indicator of the unit price display at the pump.
- \* **Time to Clean the Pump Display**(s): Parameter indicating the number of seconds the system waits before sending a command that makes the display of the pump go blank. As an example, if the parameter value is 10 sec, the system will leave the pump display in it's current state for at least 10 seconds before sending the command.

#### 4.1.3 Alarm Transfer Agent

module AlarmT	ransferAgent 🔽			
description				
		Se	arch	
Send new Configurati	on to Eusion			
end new Configurati	on to Pusion			
	_			
List of Result	s Generic Pai	rameters		
List of Result	s Generic Pai sub-group	rameters description	value	Тір
List of Result module AlarmTransferAgent	s Generic Par sub-group general	rameters description Site Id	value FUSION	<b>Tip</b> String Identifying this Fusion Box
List of Result module AlarmTransferAgent AlarmTransferAgent	s Generic Par sub-group general general	description Site Id Notify Pumps	value FUSION NO	<b>Tip</b> String Identifying this Fusion Box Do you want the system to notify PUMP alarms every time a pump goes offline?
List of Result module AlarmTransferAgent AlarmTransferAgent	s Generic Pai sub-group general general general	rameters description Site Id Notify Pumps Notify Flow	Value FUSION NO NO	Tip       String Identifying this Fusion Box       Do you want the system to notify PUMP alarms every time a pump goes offline?       Do you want the system to notify FLOWRATE alarms every day with the status of the flow rate of each hose?
List of Result module AlarmTransferAgent AlarmTransferAgent AlarmTransferAgent	s Generic Pai sub-group general general general general_advanced	rameters description Site Id Notify Pumps Notify Flow Seconds between retries	Value FUSION NO NO 300	Tip       String Identifying this Fusion Box       Do you want the system to notify PUMP alarms every time a pump goes offline?       Do you want the system to notify FLOWRATE alarms every day with the status of the flow rate of each hose?       How many seconds should the system wait between retries if the command fails? (0 means no retry at all)

#### Figure 4-7 Alarm Transfer Agent Parameters

Combines the special parameters for communication with the Alarm Transfer Agent service. These parameters are commonly set by the installers of the system.

#### 4.1.4 Payments

module	Payments	*		
description				
		Se	arch	
Send new (	Configuration to	o Fusion		
List of	Conoric	Darameters		
List of	Generic F	Parameters	value	Tin
List of module Payments	Generic F sub-group device:pump	Parameters description Auto Clear ID	value DEVICE DEPENDENT	Tip When a sale is automatically cleared
List of module Payments Payments	Generic F sub-group device:pump general	Parameters description Auto Clear ID Pending Sales	Value DEVICE DEPENDENT 2	<b>Tip</b> When a sale is automatically cleared Maximum quantity of pending sales per fuelling position
List of module Payments Payments Payments	Generic F sub-group device:pump general general	Parameters description Auto Clear ID Pending Sales Maximum pending sale time (secs)	Value DEVICE DEPENDENT 2 0	<b>Tip</b> When a sale is automatically cleared Maximum quantity of pending sales per fuelling position After this elapsed time

#### Figure 4-8 Payments Parameters

This module groups the parameters relating to the payment of the sales generated at the pump.

- \* Auto Clear ID: Parameter indicates the type of payment that will be used when a pump sale is automatically cleared. The sale can be set to Automatic or Unpaid and can be assigned per pump.
- NOTE: When used on a Full Serve pump, the use of Auto Clear ID will pay the oldest pending sale when the number of pending sales exceeds the number of allowed Pending Sales.

- \* **Pending Sale**: This value represents the number of stacked sales that will be allowed at the pump.
- \* **Maximum Pending Sale Time**: This value represents the maximum time that a sale will remain in a pending state in seconds. A value of 0 means no maximum. This value determines when the light bulb icon will appear in the Console view
- \* **Pending Sales Pay ID**: When a pending sale is automatically paid then use this payment method. Either Automatic, Unpaid, or Blank. (You must manually clear all unpaid sales when this item is set to Blank.) This option is used to clear sales when closing shifts.

#### 4.1.5 Service Modes

module S	erviceModes	*			
description					
			Search		
end new Conf	iguration to Fu	ion			
iend new Conf	iguration to Fu	ion			
iend new Conf	iguration to Fu	ion			
iend new Conf	iguration to Fue	ion ameters			
iend new Conf List of Ge module	iguration to Fue eneric Par sub-group	a meters description	value	Тір	

Figure 4-9 Service Mode Parameters

This module defines the Service level of the defined pump. The choices are **Full Service** or **Self Service** and can be defined on a per pump basis.

## 4.2 Devices

	DRESSER WAYNE	er: 🙎 ADMIN (en)	Store: Tom's One Stop	)(en) number: 12345	678 Fusion Date: 17/4	4/2009 6:56:11 🛛 🔀 Logout
	051014	Configuration	Operation	Reports	POS	Security
HOME > S	ecurity > Users	Generic				
		► Devices	Communi	cation 📃	_	
List of	Lisers Securit	Maintenance				e Configuration
List of	Users Securit	Payment Types	Loop Mana	ager	/ Sub-M	lenu
USEF IU	<u>user number</u>	Prices	Product			lond
ADMIN	10000	Others	Pump			
GUEST	10000		Tank			
JUNITR	Add Now	.u.	TankMonit	or	/	
	AUUINEW		Tank sucti	on /	/	
			VehicleIdR	leader		

#### Figure 4-10 Devices Menu

The Device Configuration sub-menu is generated according to the modules that have been activated for the particular license that the customer has paid for.

The menu is presented in the figure above and the basic functions are common to all versions.

### 4.2.1 Steps for Creating a Basic Configuration

1. Begin by clearing any previous programming that may be in the system. Go to **Configuration > Maintenance > Clear Configuration** then select **OK** to confirm.

DRESSER WAYNE	Jser: 🤶 ADMIN (en	) Store: (e	in) number: 0000	0		
-Osion	Configuration	Operation	Reports	POS	Security	
	Generic					Microsoft Internet Explore
	Devices					Are You Sure?
	Maintenance.	Origina	al Configuration			
	Payment Type	es Check	Configuration			OK Cancel
	Prices	Apply C	Configuration			
	Others	► Clear (	Configuration			



2. Next, go to **Configuration > Maintenance > Apply Configuration** to save the blank configuration to Fusion.

DRESSER WAYNE	Jser: 😤 ADMIN (en	) Store	: (en) number: 000	00	
	Configuration	Operatio	n Reports	POS	Security
	Generic		T <sub>an</sub>		
	Devices				
	Maintenance.	Oric	inal Configuration		
	Payment Type	es Che	ck Configuration		
	Prices	► App	ly Configuration		
	Others	Cle	ar Configuration		

#### Figure 4-12 Apply Configuration

3. The following message will then be displayed indicating that the new configuration has been applied successfully. Select **Close Windows** to continue.



Figure 4-13 Configuration Applied

4. In this step the product is configured which is what resides in the tank. The product name can be the same as the grade name if it is a pure grade. However, if you have blended grades then one or more products are blended to create a grade. Go to **Configuration > Devices > Product**.



Figure 4-14 Configuration Devices Product

	-051		ian	Onevetien	Deneste	DOD	Consuits	
		Conligurat	lun	Operation	Reports	FUS	Security	
HOME > C	onfigura	tion > Devices > Pro	duct					
Produc	t							
-		Time	Oslau					
a	number	туре	COIOF					
<u>lid-Octane</u>	2	Low Octane Unleaded	#000	C00				
	4	High Octope Upleaded						
remum	1	High Octane Onleaded	#000	UFF				
	3	Low Octane Unleaded	#888	888				
equiar			1 1 1 1 1 0 0 0	000				

Figure 4-15 Product Programming Menu

a. Select the **Add** button to create a new product Id, or select the existing Product Id to modify the existing entry. If you select the **Add** button, the following screen will be displayed.

🗉 http://192.168.1.20 - SSFDeviceConfigImpleme 📒	
Implementation	~
Product 💌	
OK Cancel	
🙆 Done 💣 Internet	

Figure 4-16 Add New Product

b. Enter a product name in the box, which will be the identification of new product being created and select **OK**. (Example: Premium, Regular)

Id	number	Туре	Cold	or	
<u>Mid Octane</u>	1	Low Octane Unleaded		#FF9999	
<u>Premium</u>	3	High Octane Unleaded		#FF3333	
<u>Regular</u>	2	Low Octane Unleaded		#6666FF	
Produc	t - Pre	emium			
Produc Paramete	ct - Pre r value	emium		_	Тір
Produc Paramete Name	r value Prem	e <b>mium</b> ium			Tip Product Name
Produc Paramete Name Number	r value Prem	e <b>mium</b> ium			Tip Product Name Product Number
Produce Paramete Name Number Product Typ	r value Prem 3 Pe High	e <b>mium</b> ium Octane Unleaded	~		Tip   Product Name   Product Number   Specifies the product ty

Figure 4-17 Product Parameters

- c. Complete this screen with the product type pull-down to assign a product type to the product being programmed. When you are done there will be a screen like the one below.
- d. Select the Apply Changes button to save the changes.
- e. Repeat the above steps for any additional products.

Produc	t		
Id	number	Туре	Color
Mid Octane	1	Low Octane Unleaded	#FF9999
<u>Premium</u>	3	High Octane Unleaded	#FF3333
<u>Regular</u>	2	Low Octane Unleaded	#6666FF
Add			

Figure 4-18 Product Programming

5. Next, create the fuel grades. For this example a pure grade is being programmed. Go to **Configuration > Devices > Grade**.

Configuration	Configuration	Oper	ation	Reports
Devices	Generic			
Grade	Devices		Communicatior	۱
	Maintenance		► Grade	
	Payment Types		Loop Manager	
	Prices		Product	
	Others		Pump	
	10		Tank	
	25		TankMonitor	
			Tank suction	
-			VehicleIdReade	er

#### Figure 4-19 Configuration Devices Grade

a. The following screen will be displayed.

DRESSER WAYNE	User: 🕵 ADMIN (en) S	tore: Tom's One Stop(en)	number: 12345678 F	Fusion Date: 17/4/2009 7:	32:13 🔀 Logout
THOSICIA	Configuration	Operation	Reports	POS	Security
HOME > Configuration > D	)evices > Grade				
Grade					
Id number High Product H	High Product Percentag	je Low Product Low	Product Percentage	e unit abbreviation	Color
Add					

Figure 4-20 Grade Add

b. Select the **Add** button to create a new "grade". In the screen below you define the grade name and then select the **OK** button.

🗿 http://192.168.1.20 - SSFDeviceConfigImpleme	
Implementation	^
Grade 💌	
OK Cancel	
	~
🕘 Done 🔷 Internet	

Figure 4-21 Add New Grade

c. The next screen below appears where you insert data for the grade you are creating. Enter data in the boxes provided or use the drop-down box to select values for a field. The example below is creating a Grade ID called "Regular".

Id number Hig	h Product High Product Percentage Lo	ow Product Low Product Percentage	unit	abbreviat	ion Col	or
<u>Regular</u>	100	0	Litres	Ltr		#FFFFFF
Grade - Regul	ar					
Parameter	value	Tip				
Name	Regular	Grade Name	Grade Name			
Number		Grade Number	Grade Number			
High Product	Regular 👻	High Octane product of	the ble	nd		
Percentage High Produ	ct 100	Percentage High Produ	t			
Low Product	×	Low Octane product of	the blei	nd		
Percentage Low Produ	ct 0	Percentage Low Produc	t			
Measure unit	Litres	Grade unit measure				
Measure unit (abbr)	Ltr 💌	Measure unit Abbreviat	ion			
Color	#FFFFFF	Grade Color				
Apply Chapage	Duplicate Delete Cancel					

Figure 4-22 Grade Parameters

d. This screen is used to program the Grade Number, Color of the product (which will then be selected for reports), Measuring Units. Use the pull-downs to select High and Low Product (blended grades). Select the **Apply Changes** button when you are done.

Parameter	value	Tip
Name	Regular	Grade Name
Number		Grade Number
High Product	Regular 🗸	High Octane product of the blend
Percentage High Product	Mid Octane Premium	Percentage High Product
Low Product	Regular	Low Octane product of the blend
Percentage Low Product	0	Percentage Low Product
Measure unit	Gallons	Grade unit measure
Measure unit (abbr)	Gal 🔽	Measure unit Abbreviation
Color	#9999FF	Grade Color

Figure 4-23 Grade Parameters cont.

**NOTE:** In the event that the grade is a mixture of two Product Types, you must complete the High Product and Low Product and the percentages of both that make up the mixture. Otherwise, for a pure grade, the product should be completed only for high, with a "100" in the Percentage High Product. Leave the Low Product pull-down field blank.

- e. Repeat from Step A for additional grades.
- f. An example Grade programming screen is shown below:

	DRESSER \	WAYNE User:	S ADMIN (en)	tore: Tom's (	One Stop(en) ni	ımber: 12345678	Fusion	Date: 21/	4/2009 1:08:12		🔀 Logout
	-031		onfiguration	Operation	5	eports	POS		Security		
HOME > C	onfigura	tion > Device	s > Grade								
Grade											
Id	number	High Product	High Product Pe	rcentage	Low Product	Low Product P	ercentage	unit	abbreviation	Color	e I
Mid-Grade	2	Mid Octane	100			0		Gallons	Gal		#CCCC00
Premium	3	Premium	100			0		Gallons	Gal		#CC0000
<u>Regular</u>	1	<u>Regular</u>	100			0		Gallons	Gal		#00CC00

Figure 4-24 Grade Parameters Blend

**NOTE:**At any time during the creation of different grades, you can select the button "Duplicate" to create another product with the same characteristics, but with a different ID.

6. Next, you set up fuel tanks. Go to **Configuration > Devices > Tank**.



Figure 4-25 Configuration Devices Tank

a. The following window will be displayed:

	DRE	SSER WAYN	US US	er: 🙎 ADMIN I	(en) Store: T	om's One Stop(en) nu	mber: 12345678	Fusion Date: 21/4	/2009 1:14	4:28 Kogout
	r	5101		Configuratio	n Ope	ration R	eports P	os	Security	
на	IME > Conf	iguration	> Devi	ces > Tank						
Т	ank									
Id	Product	capacity	height	table_unit	manual_unit	temperature_uni	t alarm_overflow_lir	nit alarm_prod_hi	gh_limit	alarm_prod_low_limit
1	Premium	10000	0	MM	MM	с	95	90		30
	Mid Octane	10000	0	MM	MM	с	95	90		30
2	Contraction of the second s									

#### Figure 4-26 Tank Programming

b. Select the Add button to create a new tank. The following window will be displayed.

I

I

http://192.168.1.20 - SSFDeviceConfigImpleme	
Implementation	~
Tank 💌	
OK Cancel	
	$\sim$
🙆 Done 🧐 Internet	

Figure 4-27 Add New Tank

c. Enter a numeric value for the Tank ID and select **OK**. This example creates an Tank Id "1", which leads to the next screen.

Id Product ca	pacity	height	table_	unit manual_	unit temperature_uni	t alarm_overflow_limit	alarm_prod_high_limit	alarm_prod_low_limi		
1 Premium 10	000	0	MM	MM	С	95	90	30		
2 Mid Octane 10	000	0	MM	MM	С	95	90	30		
<u>3 Regular</u> 10	000	0	MM	MM	С	95	90	30		
Tank - 1		alue	-	in						
ID	V.	aiue	י ד (	ip Tank Id						
Product		Deserium		roduct in Tank						
Casasita		remium	<u> </u>	Mayles us task consists						
Capacity	1	0000		laximum tank c	apacity					
Height	0		T	ank height						
Table measure ur	nit N	MM 🔽	I	fthere was a ca	libration table					
Reading measure	unit N	MM 🔽	V	Vhen a manual	tank reading is executed					
Temperature Unit	t C	. •	Т	'emperature un	it used to display informa	ition on tank product statu	s. Only if Tank Monitoring	module is present		
Overflow Alarm	9	5	F	ercentage of th	e tank where the overflo	w alarm will be activated				
High product aları	m g	0	F	ercentage of th	e tank where the high pr	oduct alarm will be activa	ted			
Low product alarr	m 3	0	F	ercentage of th	e tank where the low pro	oduct alarm will be activat	ed			
Suction alarm	1	5	F	ercentage of th	e tank where the suction	point is reached and the	suction alarm is activated			
Water alarm	1	0	F	ercentage of th	e tank where the high w	ater alarm will be activate	d			
Temperature High	1 0	8	Т	op limit for pro	duct temperature in corr	esponding unit (C or F). O	means no control			

#### Figure 4-28 Tank Parameters

d. On this screen complete the data entry for the product that's in the tank. Use the pull-downs where available to assign the grade, units of measure, and temperature units of measure. This example creates a tank with a Premium grade in it. Repeat from step A for additional tanks. When you have completed tank programming you should have a screen similar to the following.

L

Id	Product	capacity	height	table_unit	manual_unit	temperature_unit	alarm_overflow_limit	alarm_prod_high_limit	alarm_prod_low_limit
1	<u>Premium</u>	10000	0	MM	MM	С	95	90	30
2	Mid Octane	10000	0	MM	MM	С	95	90	30
3	Regular	10000	0	MM	MM	с	95	90	30

Figure 4-29 Tank Parameters cont.

**NOTE:** If you select the product name in the "Product" column, the system will redirect the display to the **Configurations > Devices > Product** programming page and show details for the product selected.

7. In this step you set the Tank Suction. Go to **Configuration > Devices > Tank Suction**.



Figure 4-30 Configuration Devices Tank Suction

Each tank suction is associated with one or more tanks (up to three). See the following window.

I

Select on a tank suction ID to modify an existing entry	HOME > Co	nfiguration >	Usen C Device	S > Tar	iN (en) lion Ik suction
	Tank su Id	ction Suction type	tank1	tank2	tank3
	<u>1-Premium</u>	Simple	1		
Select Add to create a new	2-Mid Octane	Simple	2		
tank suction.	<u>3-Regular</u>	Simple	3		
	Add				

Figure 4-31 Tank Suction Menu

a. Select the **Add** button to create a new tank suction or select a Tank Suction Id to open an existing tank suction. Selecting the **Add** button opens the window below. Assign a tank suction and select **OK**.

http://192.168.1.20 - SSFDeviceConfigImpleme	
Implementation	~
TankSuction	
OK Cancel	
🕘 Done 🧶 🔮 Internet	

Figure 4-32 Add Tank Suction

Id	Suction type	tank1	tank2	tank3		
<u>1-Premium</u>	Simple	1				
2-Mid Octane	Simple	2				
<u>3-Regular</u>	Simple	3				
Tank su Parameter	ction - 1-F value	Premi	ium		т	ip
Tank su Parameter ID	ction - 1-F value 1-Premium	Premi	ium		<b>T</b>	<b>ip</b> iank suction ID
<b>Tank su</b> Parameter ID Suction Type	ction - 1-F value 1-Premium 1-Simple	Premi	ium		T T T	<b>ip</b> "ank suction ID "ype of suction
Tank su Parameter ID Suction Type First Tank	ction - 1-F value 1-Premium 1-Simple	Premi	ium		 T T T	<b>ip</b> "ank suction ID "ype of suction irst tank of this connection
Tank su Parameter ID Suction Type First Tank Second Tank	value 1-Premium 1-Simple 1	Premi	ium		T T F	<b>ip</b> Tank suction ID Type of suction First tank of this connection Second tank of this connection

Figure 4-33 Tank Suction Parameters

b. On this screen you can complete the data for the type of suction (Simple, Manifold or parallel), and ID of each tank to be selected according to the tanks created previously. In the simple setup, you should only fill in the information field "ID Tank Number 1". In Manifold or Parallel configurations, you can configure up to 3 tanks. See the example below. When you have finished you will have a screen similar to the following:

	051014	Configuration				
HOME > Co	nfiguration >	Device	s > Tar	nk sucti		
Tank su	ction					
Tank su Id	ction Suction type	tank1	tank2	tank3		
Tank su Id 1-Premium	Suction Suction type	tank1	tank2	tank3		
Tank su Id 1-Premium 2-Mid Octane	Suction Suction type Simple Simple	tank1 1 2	tank2	tank3		

Figure 4-34 Tank Suction Type

8. The next step is used to configure the communication ports. Go to **Configuration > Devices > Communication**.

Configuration — P Devices — Communication — P	Configuration Or		ation	Reports	
	Generic				
	Devices		Communication		
	Maintenance		Grade		
	Payment Types		Loop Manager		
	Prices		Product		
	Others		Pump		
			Tank		
			TankMonitor		
			Tank suction		
			VehicleIdReade	er	

## Figure 4-35 Configuration Devices Communication

a. The following screen will be displayed.



Figure 4-36 Communications Devices Menu
b. Select the Add button to create a new communications channel or select an existing Communications Id to modify. If you want to create a new communications channel, the following window will be displayed where you define a name and select the communications method, then select OK.

http://192.168.1.20	SSFDeviceConfigImpleme 🔳 🗖 🔀
Implementation	1
	ComBogus 💌
OK Cancel	ComBogus GPBox
E Done	🔮 Internet

Figure 4-37 Add Communications Devices

c. Serial is chosen from the drop down list and a Communications ID called **CL-1** is assigned. Select **OK** to when you have finished. Use the following screen to program all of the communications parameters for the device. (GRIB boards).

Communication	on d	
Serial	L-1	
Communicatio	on - CL-1	
Parameter	value	Тір
Baud Rate	9600 💌	Serial port baud rate
Туре	Serial	Communication device type
ID	CL-1	Identification of the communication device
Parity	NONE 💌	Serial port parity
Port Id	/dev/ttyS0	Serial Communication Id (Ex. 'COM1' or '/dev/ttyS0'
Word Len	8 💌	Word len in bits of every byte transmitted
Stop Bits	1 💌	Serial port stop bits
Max Serial Port Errors	3	Maximum Number of errors allowed in a serial port before a reset
Other Port		Name of the serial port if OTHER was selected on the port combo
RTS-CTS	FALSE Y	Serial port must use hardware handshaking with RTS and CTS signals
XON-XOFF	FALSE Y	Serial port must use sofware handshaking with XON and XOFF protocol
Write Interval	0	Milliseconds between each byte transmitted. Leave in 0 as default
Read Timeout	500	Milliseconds to wait for the first byte on a message on the serial port
Read Interbyte TO	100	Milliseconds to wait for each subsequent byte on a message on the serial port
Echo	TRUE 🔽	Does every byte sent over the port is received back as echo?
RTS (485)	FALSE V	If this is a 485 port, then use RTS up to signal transmission, and down for reception

#### Figure 4-38 Communications Devices Parameters

- d. For all dispensers set Echo = **True**.
- e. Program Port ID using the pull-down.
- f. On this screen you can complete all information on the communication type that is used in the system. When you are done, the screen should be similar to the following.

I

g. Select the **Apply Changes** button to save changes.

Communica	tion
Implementation	Id
Serial	<u>485-1</u>
Serial	<u>485-2</u>
Serial	<u>CL-1</u>
Serial	<u>CL-2</u>

Figure 4-39 Communications Devices Menu Complete

9. Go to **Configuration > Devices > Loop Manager**. In this step you can set the communications loop to be connected to the pumps. The following window will be displayed.

-	DRESSER WAYNE	User: 🙎 ADMIN (en) Sto Configuration
HOME	> Configuration >	Devices > Loop Manager
Loo	p Manager	
Id	Communication	
Id <u>485-1</u>	Communication 485-1	
Id <u>485-1</u> <u>485-2</u>	Communication 485-1 485-2	
Id 485-1 485-2 CL-1	Communication           485-1           485-2           CL-1	

Figure 4-40 Loop Manager Menu

a. The **Add** button will allow you to create a new communications loop or you can select an existing communications loop to modify.

🗿 http://192.168.1.20 - SSFDeviceConfigImpleme 📮	
Implementation	~
loop1 LoopManager 💌	
OK Cancel	
🙆 Done 💣 Internet	

Figure 4-41 Add Communications Loop

b. Enter a name for the loop and use the pull-down to define **LoopManager** as the type. Select "**OK**" to continue.

Loop manager	
Id Communication	
loop1	
Loon Manager	nt
Loop Manager	p1
Loop Manager Parameter value	р <b>1</b> Тір
Loop Manager Parameter value ID loop	p1 Tip Loop ID
Loop Manager Parameter value ID loop Communications CL-1	p1 Tip Loop ID Communications Port

Figure 4-42 Configure Communications Loop

c. This screen is used to assign a communications port to the Loop Id. Use the Communications pull-down to select a communications port. Select **Apply Changes** to save and continue. The following window will then be displayed.

	DRESSER WAYNE	User:	ero:	ntig	gur	ratio	l (ei on	n)	
Home >	Configuration > D	evice	es	>	L	oot	o M	lan	ag
Loop I	Manager								
Loop   Id	Manager Communication								
Loop   Id <u>CL-1 FP1</u>	Manager Communication <u>CL-1 FP1</u>								
Loop   Id CL-1 FP1 CL-2 FP2	Manager Communication CL-1 FP1 CL-2 FP2								

Figure 4-43 Communications Loop Complete

10. Next, program the pump types by going to **Configuration > Devices > Pump**.

Configuration ———	Configuration	Oper	ation	Reports
Devices —	Generic			
Pump 🔍	Devices		Communicatio	n
	Maintenance		Grade	
	Payment Types		Loop Manager	
	Prices		Product	
	Others		► Pump	
			Tank	
			TankMonitor	
			Tank suction	
			VehicleIdReade	er

Figure 4-44 Configuration Devices Pump

a. Each pump will have a number of parameters, in addition to the configuration of its hoses. Select **Add** to program a new pump or select the **Pump Id** to configure an existing pump.



Figure 4-45 Pump Programming Menu

b. When you select the **Add** button the following window will be displayed where you select the pump ID and the pump brand that you will be programming. Select **OK** when you are finished.

http://192.168.1.20 - State	SSFDeviceConfigImp	Ieme 🔳 🗖 🗙
	Bogus 💌	
OK Cancel	Bogus DartWayne Galileo Gilbarco Kraus	2
Done Done	NuovoPignone OrpakPIR TeosisDCR Tokheim-US Wayne	ernet 🥂

## Figure 4-46 Add Pump

c. In the following example, a Wayne pump was created with a Pump Id of 1.

Pump - 1		
Parameter	value	Тір
Amount decimal option	3-X.2 🖌	Amount decimal option
Pump Type	Wayne	Pump type for the system
Volume decimal option	1-3.3 💌	Volume decimal option
ID	1	Identification of the pump for the system. Is the logical number of the pump
Physical ID	1	Is the internal identification of the fuelling position
PPU decimal option	4-1.3 💙	PPU decimal option
Minimum sale volume	0.100	Minimum volume of a sale in order to consider it valid
Pump type of computer	SIMPLE 💌	Identifies if the pump is a one sided or two sided
Hoses	3	Number of hoses for the fuelling position
Maximum sale volume	40000.00	Maximum volume of a sale in order to consider it valid
Minimum sale amount	0.000	Minimum amount of a sale in order to consider it valid
Communications loop	loop1 💌	Identifies the communication loop used to talk to this pump
Maximum sale amount	0.000	Maximum amount of a sale in order to consider it valid
Maximum pump errors	6	Number of consecutive errors to make the pump go to error state
Preset Type in Fill Up Fuel Tank	VOLUME V	It determines the Preset Type in case of sending "FILL UP" in Preset command
Preset Amount in Fill Up Fuel Tank	999.000	It determines the Preset Amount in case of sending "FILL UP" in Preset command
Totalizer Update Time	0	Time to wait (in secs) for the electronic totalizer to update in case it didn't when the sale finished
Slot ID	0	Slot ID where the pump is conected to the GPBox
Check Blend Ratios	1-YES 👻	If the blend ratios from the pump and Fusion don't match, should the pump come online?
Maximum transaction	0	Maximum volume in transaction (zero means no limit)
Slow down	0	Set the slow down value to prevent a transaction stop correctly with a preset. Set zero if you don't know the correct value
Price Level Switched	0-NO 💌	Price level 2 of Fusion goes to 1 of Pump and viceversa
Third FeedStock	0-NO 💌	Third Feedstock is available (3 way blender)
Apply Changes Dupli	cate Delete Cancel	

Figure 4-47 Pump Parameters

**NOTE:**The setup of the pump will vary depending on the type of pump you choose to program.

- d. On this screen, is the physical ID (internal pump address), the communication type and the number of hoses, and other pump programming.
- e. Set the "Preset Amount in Fill Up Fuel Tank". This value is used to determine the maximum amount of fuel that the customer can fill when using "Fill Up" in the Preset command. The default value is 999.000 and is set on individual pump basis.
- f. Program the communications loop using the Communications Loop pull-down.
- g. Select Apply Changes to save the programming that you have done.
- h. When you have completed this screen you will see the hose configuration screen at the bottom of the page.

Totalize	er Update Ti	me	0			Time to wait (in secs) for the electronic totalizer to update in case it didn't when the sale finished
Slot ID			0			Slot ID where the pump is conected to the GPBox
Maximu	ım transacti	on	0			Maximum volume in transaction (zero means no limit)
Slow do	own		0			Set the slow down value to prevent a transaction stop correctly with a preset. Set zero if you don't know the correct value
Price Le	evel Switche	d	0-NO	~		Price level 2 of Fusion goes to 1 of Pump and viceversa
Арр	ly Change	s C	ouplicate	Delete	Cancel	
Hos	e					
Id	Logical ID	Real ID	Grade	Suction high	Suction low	
<u>hose1</u>	1	1	<u>Mid</u> <u>Grade</u>	<u>1-Mid Grade</u>		
hose2	2	2	Regular	2-Regular		
hose3	3	3	Premium	<u>3-Premium</u>		

#### Figure 4-48 Pump Parameters cont.

i. Select the Hose ID of each hose to program. See the following screen.

Hoses	3	Number of hoses for t	the fuelling posit	tion	
Communications loop	loop1	Identifies the commun	nication loop use	ed to talk to this pump	
Minimum sale amount	0.000	Minimum amount of a	a sale in order to	o consider it valid	
Maximum sale amount	0.000	Maximum amount of a	a sale in order t	o consider it valid	
Maximum pump errors	6	Number of consecutiv	e errors to mak	e the pump go to error state	
Preset Type in Fill Up Fuel Tank	VOLUME	It determines the Pres	set Type in case	of sending "FILL UP" in Preset co	ommand
Preset Amount in Fill Up Fuel Tank	999.000	It determines the Pres	set Amount in ca	ase of sending "FILL UP" in Preset	command
Totalizer Update Time	0	Time to wait (in secs)	) for the electror	nic totalizer to update in case it d	idn't when the sale finished
Slot ID	0	Slot ID where the pur	np is conected t	o the GPBox	
Maximum transaction	0	Maximum volume in t	ransaction (zero	) means no limit)	
Slow down	0	Set the slow down va correct value	lue to prevent a	transaction stop correctly with a	preset. Set zero if you don't know the
Price Level Switched Duplicate Delete Hose	0-NO	Price level 2 of Fusion	goes to 1 of Pu Pump -	mp and viceversa 3 - hose1	
Price Level Switched Duplicate Delete HOSe Id Logical ID Real ID Gra	0-NO	Price level 2 of Fusion	goes to 1 of Pu Pump - Parameter	imp and viceversa 3 - hose1 value	Тір
Price Level Switched Duplicate Delete Hose Id Logical ID Real ID Gra hose1 1 0	0-NO	Price level 2 of Fusion	Pump - Parameter Number	Imp and viceversa 3 - hose1 value 1	T <b>ip</b> Logical Hose
Price Level Switched Duplicate Delete Hose Id Logical ID Real ID Gra hose1 1 0 hose2 2 0	0-NO	Price level 2 of Fusion	Pump - Parameter Number	Imp and viceversa 3 - hose1 value 1	Tip Logical Hose Number (consecutives)
Price Level Switched Duplicate Delete HOSE Id Logical ID Real ID Gra hose1 1 0 hose2 2 0 hose3 3 0	0-NO	Price level 2 of Fusion	Pump - Parameter Number Physical ID	Imp and viceversa 3 - hose1 value 1 0	Tip Logical Hose Number (consecutives) Physical hose ic Real number inside pump (leave this in 0 it you don't know)
Price Level Switched Duplicate Delete Hose Id Logical ID Real ID Gra hose1 1 0 hose2 2 0 hose3 3 0	o-NO	Price level 2 of Fusion	Pump - Parameter Number Physical ID Grade	Imp and viceversa 3 - hose1 value 1 0 Mid-Grade	Tip Logical Hose Number (consecutives) Physiccal hose ic Real number inside pump (leave this in 0 ii you don't know) Grade delivered at this hose
Price Level Switched Duplicate Delete HOSE Id Logical D Real ID Gra hose1 1 0 hose2 2 0 hose3 3 0	0-NO	Price level 2 of Fusion	goes to 1 of Pu Pump - Parameter Number Physical ID Grade High Suction	Imp and viceversa 3 - hose1 value 1 0 Mid-Grade	Tip Logical Hose Number (consecutives) Physical hose ic Real number inside pump (leave this in 0 it you don't know) Grade delivered at this hose Suction used to get high feedsto get high feedsto

Figure 4-49 Hose ID Programming

L

j. This screen is used to program the grade associated with the hose that you selected. Also select the Physical hose ID (internal dispenser hose number), the high suction value and if a blended grade, the low suction. For example the data below represents a 3-hose dispenser.

**NOTE:** The value that you program for the **Physical ID** is zero based which means that you will program a value that is one less than the dispenser internal hose ID. (Example: For a Wayne V390, the hoses are defined as 1,2, and 3. The Fusion **Physical ID** for a V390 would be 0,1, and 2.)

Totaliz	er Update Time	Э	0	Time to	wait (in secs) f		
Slot ID	Slot ID 0 Slot ID where the pump						
Maxim	Maximum transaction 0 Maximum volume in transaction (zero means no limit)						
Slow d	ow down 0 Set the slow down value to prevent a transaction stop correctly with a preset. Set zero if you don't know the correct value						
Price L	evel Switched		0-N(	D Price levi	el 2 of Fusion (		
Hos Id	e Logical ID Re	eal ID (	Grade	Suction high	Suction low		
Hos Id hose1	E Logical ID Re	eal ID (	Grade Regular	Suction high <u>3-Regular</u>	Suction low		
Hos Id hose1 hose2	Logical ID Re 1 0 2 0	eal ID (	Grade Regular Mid- Grade	Suction high <u>3-Regular</u> 2-MidOctane	Suction low		

#### Figure 4-50 Hose ID Programming cont.

- k. Select **Apply Changes** to save the programming.
  - I. Repeat from step i for additional hoses.
  - m. The previous programming examples will result in a Pump programming screen similar to below.

	RW	AYNE User: S ADMIN (en)
HOME > Configu	rat	ion > Devices > Pump
Pump		
Implementation	Id	
Wayne	1	
Wayne	2	
Wayne	3	
Add		

Figure 4-51 Pump Programming Menu

**NOTE:** Any configuration shall be subject to review by the system. This means that any changes on the configuration are validated before being uploaded to the Fusion controller. To validate the new configuration, refer to the following: Maintenance.

# 4.3 Payment Types

DRESSER WAYNE	ser: 🤶 ADMIN (en)	Store: Tor	n's One Stop(en)	number: 12345678	Fusion Date: 21/	/4/2009 7:37:47	<b>Logout</b>
FOSICIA	Configuration	Opera	ition	Reports	POS	Security	
HOME > Configuration > Dev	Generic						
	Devices						
	Maintenance						
	► Payment Types						
Pump	Prices						
Implementation Id	Others						

#### Figure 4-52 Payment Types Menu

In the menu of payment types can vary according to the Fusion license and modules installed. There are types of payments that belong to the system and can not be modified, and there are others that come pre-loaded with the system. Other types of payments can be made by choosing a payment group, as seen in the next few screens.

Payment ID	Description	Group	Enabled on Console	System Tender
Pump Test	The delivery was a Pump Test	PUMP_TEST	No	Yes
Automatic	The Delivery was payed in automatic way	CASH	No	Yes
POS	The Delivery was payed by a external POS	POS	No	Yes
MOD TICKET	Cleared using ticket	POS	No	Yes
Credit	Credit	CREDIT_CARD	Yes	No
Cash	Cash	CASH	Yes	No
	Add I	lew		

## Figure 4-53 List of Payment Types

If you select the link **Add New** it displays the following screen, beneath the table of payment types, containing the necessary fields to create a new type of payment:

Payment ID	Description	Group	Enabled on Console	System Tende
Pump Test	The delivery was a Pump Test	PUMP_TEST	No	Yes
Automatic	The Delivery was payed in automatic way	CASH	No	Yes
POS	The Delivery was payed by a external POS	POS	No	Yes
MOD TICKET	The transaction was cleared using the SPIRIT TICKET module	POS	No	Yes
	Add New			
end updated	Davment Types			
iend updated Add/Edit Payment ID	Payment Types			
iend updated i Add/Edit Payment ID Description	Payment Types	_		
end updated ( Add/Edit Payment ID Description Group	Payment Types			

Figure 4-54 Add Payment Types

When creating a new payment type, you must choose the payment type from the **Group** pull-down, The options can be configured:

**NOTE:**As with most screens modification of data, the ID field can not be changed. In this case, the Payment ID field can be changed.

Once you've created or modified as necessary, should select the link **Send updated data to Fusion**, which will sending the changes to the controller, to verify and update with the payment type. In this case a screen messaging, confirming the change.

# 4.4 Prices

I

# 4.4.1 Price Change

DRESSER WAYNE	ser: 🔶 ADMIN (en	) Store: To	m's One Stop(en)	number: 123	45678	Fusion Date: 14/12
THOSICIA	Configuration	Operation	Reports	POS	Fleet	Security
HOME > Configuration > Dev	Generic					
	Devices					
	Maintenance.	-				
	Payment Type	s				
Pump	► Prices	Price Cl	nange			
Implementation Id	Others	Current	Prices			
Add		Price Le	vels			
Add		Price Le	vel Mapping			

## Figure 4-55 Price Change Menu

The prices of fuel products are administered by the Fusion system, and must always be modified using fusion and never directly at the pump. Should the Fusion and the dispenser have a different price, Fusion will correct the price on the dispenser.

## 4.4.1.1 Scheduling a New Price Change

Search Pri	ce Change	List of Price Change								
Price ID		Price ID	Application Date	Application Time	Processed Date	Processed Time	Result			
Application Date		1	20081021	000000	20090421	080300	ОК			
Application bate				Add Ne	ew .					
Result	Select Value 🛛 💌				Sele	ect Add New	/ and			
Clear	Search	Add/I	Edit Price Cha	ange						
Send price change	e update to Fusion	Applicatio	on Date (yyyymmdd)	20090603	the the	following tak	ole			
		Applicatio	on Time (hhmmss)	000000	will	be displaye	d			
				Add Cance						

Figure 4-56 Enter Price Change

Use the link **Add New**, as shown in the image above to enter a new price change to be implemented by Fusion.

The first thing to do is indicate the date and time that the price change should be implemented. To implement immediately, a date and time equal or prior to the time on the Fusion Console.

It is important to note that the date and time of the Fusion may vary from the date and time of the machine that is running the web browser. This can be viewed on the top of the page header.

The date can be entered manually, in **YYYYMMDD** format (year, month and day) or by selecting on the calendar image to the right of the date field, the same holds true when entering the time format **hhmmss** (hour, minutes and seconds). Once these two fields are complete, select the **Add** button.

pplication Date (yyyymmdd)	20090421	<u> </u>						
pplication Time (hhmmss)	000000							
	Add	Can	cel					
	🗿 h	ttp://	192.1	68.1.	20 - D	ate P	ic	
	1	4			oril 200			<b>b</b>
				-				
		Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2	3	4
		5	6	Z	8	2	<u>10</u>	11
		12	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>
		<u>19</u>	20	21	22	23	<u>24</u>	25
		<u>26</u>	27	<u>28</u>	<u>29</u>	<u>30</u>		
				_				

Figure 4-57 Enter Price Change cont.

This enables the entry of new prices for products that need to change. You only need to enter the products that need a price change while the other prices remain the same.

Select the product, the price level and then the unit price you want, including the decimal point. Then select the **Submit** button, and continue with the next product.

I

DRESS	SER WAYNE User	: 🙎 ADMIN (en)	Store: Tom's One Stop(e	n) number: 123456	578 Fusion	Date: 21/4/2009 8:00:55	
		Configuration	Operation	Reports	POS	Security	
HOME > Config	juration > Prices	> Price Change					
Search Pri	ice Change	List of P	rice Change				
Price ID		Price ID Ap	plication Date App	lication Time Pro	cessed Date Proc	essed Time Result	
Application Date		1 20	081021 0000	00			
Result	Select Value	~		Add New			
Clear	Sear	ch Add/Ed	it Price Chang	9			
Send price chang	e update to Fusior	Application E	ate (yyyymmdd) 200	90421			
		Application T	ime (hhmmss) 000	000			
			Submit Dele	te Cancel			
		Linkof	vice Change D	Index			
		LISCOT F	Grade ID	Price Level	PPH	Delete	
		1	Regular V	1	1.700		
		1	Premium 🔽	1 🗸	1.900		
		1	Mid-Grade 🗸	1 🗸	1 800		
		1	Select Value 🗸	Select Value 🗸			
				First Prov. 1 of 1	Mout Look Ruber	the Consol	

Figure 4-58 Price Change Detail

Once the entry of all products with price changes has been made, we need to tell Fusion to update the data for processing. Select the link to the left of the page labelled **Send price change update to Fusion**. See below.

Search Pri	ce Change						
Price ID							
Application Date							
Result	Select Value 💌						
<u>Clear</u>	Search						
Send price chang	Send price change update to Fusion						

Figure 4-59 Send Price Change to Fusion

## 4.4.1.2 Verifying the Price Change

Once the price change has been sent to Fusion, you can track the status of it by viewing the table **List of Price Change**. This tracks the status of price changes, you can refresh the content, (usually by selecting the 'F5' on the browser).

List of Price Change											
Price ID	Application Date	Application Time	Processed Date	Processed Time	Result						
2	20090603	000000	20090603	053047	OK						
1	20081021	000000	20090421	080300	ОК						
		Add No	<u>ew</u>								

Figure 4-60 Verify Price Change

I

You have to pay attention to three areas:

- \* **Processed Date**: This indicates the date on which the Fusion processed price changes.
- \* Processed Time: This indicates the time that Fusion processed price changes.
- \* **Result**: The result of processing price changes. OK means that the change was implemented correctly. ERROR indicates that something went wrong.

More information can be obtained through the reports of price changes, in the Reports section.

## 4.4.1.3 Editing a Price Change

Price changes that have not yet been processed by the Fusion, can be edited.

For editing, just select the latest entry under the **Price ID** column in the **List of Price Change** table for the change you want to edit.

Once edited, you have to select the **Submit** button under the **List of Price Change Detail** table for information to be recorded. As before, Select the link to the left of the page labelled **Send price change update to Fusion**, and the updated information will be sent to Fusion.

Processed price changes can not be edited.

# 4.4.2 Current Prices

DRESSER WAYNE	er: 🙎 ADMIN (er	i) Store: To	m's One Stop(en)	number: 123	45678	Fusion Date: 14/12/
THOSION	Configuration	Operation	Reports	POS	Fleet	Security
HOME > Configuration > Dev	Generic					
	Devices					
	Maintenance.					
	Payment Type	es				
Pump	Prices	Price C	hange			
Implementation Id	Others	► Current	Prices			
Add		Price Le	evels			
Aug		Price Le	evel Mapping			

## Figure 4-61 Current Prices Menu

This functionality is provided which can be used to display the current fuel prices of different grades,

	Con	iguration	Operation
HOME > Configure	ation > Drices >	Current Dri	r
Printable vers	ion		
	es		
Current Price Total Records: 3 Grade ID	es <u>Price Level</u>	PPU	
Current Pric Total Records: 3 Grade ID Mid-Grade	es <u>Price Level</u>	<u>PPU</u> 1	1.800
Current Pric Total Records: 3 Grade ID Mid-Grade Premium	es <u>Price Level</u>	<u>РРU</u> 1 1	1.800

Figure 4-62 Current Prices

## 4.4.3 Price Levels

DRESSER WAYNE	er: 🙎 ADMIN (en	) Store: To	m's One Stop(en)	) number: 123	45678	Fusion Date: 14/12
TEOSION	Configuration	Operation	Reports	POS	Fleet	Security
HOME > Configuration > Dev	Generic					
	Devices					
	Maintenance.					
	Payment Type	es				
Pump	Prices	Price C	hange			
Implementation Id	Others	Current	- Prices			
		► Price L	evels			
Add		Price L	evel Mapping			

Figure 4-63 Price Levels

This functionality is provided which can be used to change to the current price levels for each dispenser. Once you select **Price Levels** the following window is displayed:

I

	DRESSER WAYNE	Use	r: 🤶 ADMIN (en)	s	tore: Tom's One Stop(en)	number: 12345678
	-05101		Configuration		Operation	Reports
HOME > C	onfiguration >	> Price	s > Price Levels	5		
List of	Devices					
Device ID	Price Level					
1	1 🛩					
2	1 💌					
3	1 🕶					
4	1 🛩					
5	1 🛩					
6	1 💌					
7	1 🛩					
8	1 🛩					
9	1 💌					

#### Figure 4-64 Price Levels Programming

Using the pull-down for each Device Id, chose a price level for each dispenser, then select the **Submit** button.

## 4.4.4 Price Level Mapping



Figure 4-65 Price Level Mapping

Price Level Mapping is used to define different Price Levels that can be used after the sale has been rung up so that you can change the price per unit before finalizing the sale.

Select **Add New** to add a new price level or select an existing price level to modify a current price level.

W.		C	Configuration Operation	on Reports	POS	Fleet	Security	
HOME > Confi	igı	uration > Prices	> Price Level Mapp	ing				
				-				
list of Re	asi	ults Price Le	evel Manning	Add/Edit	Price Leve	Mannin	α	
List of Re	s	ults Price Le	evel Mapping	Add/Edit F	Price Leve	l Mappin	ıg	
List of Re Price Level	s	ults Price Le <u>Mapping Label</u>	evel Mapping <u>Description</u>	Add/Edit I Price Level*	Price Leve Price Level 2	Mappin Y	Ig	
List of Re Price Level		ults Price Le <u>Mapping Label</u> Normal	evel Mapping Description Normal Prices	Add/Edit Price Level*	Price Level	Mappin	g	
List of Re Price Level	2 <b>5</b>	ults Price Le <u>Mapping Label</u> Normal Native	evel Mapping Description Normal Prices Native Prices	Add/Edit P Price Level* Mapping Label*	Price Leve Price Level 2 Native	l Mappin V	1g	

Figure 4-66 Price Level Mapping

# 4.5 Receipt Layout Programming

The following section contains instructions for creating a receipt ticket layout. A receipt layout is a template that the Ticket Module will then use to generate real receipts.

The main layout will contain separate sections, in order to be able to show some cyclic information.

These sections are:

- \* Detail Line
- \* Taxes
- \* Tenders

The main template, and its sections, will also contain tags (similar to html tags) that will then be replaced with the actual transaction data. These tags are delimited by the '**^**' symbol.

So, for example, when you want to show the Total Amount on any part of the ticket, you should write in the layout **^HATO^**.

Also, it's possible to add formatting information for each field. For example, to show the total amount with 3 fixed decimal places, you would write in the layout **^HATO%.03f^**. The definition of this format is defined in the following tables.

 To access the Receipt Layout Programming section, go to POS > Receipts > Configuration and select the existing Ticket ID to modify the current layout or select Add New to create a new layout.

DRESSER WAYNE Usen	🙎 ADMIN (en	) Store: (en)	number: 00000			Fusion Date: 2/3/2010 5:32:52
	nfiguration	Operation	Reports	POS	Security	
HOME > POS > Receipts > Config	guration					
List of Results Tickets			Add/I	dit Tickets		
<u>Ticket Id</u>			Ticket Id	ТКТ		
TKT Add New			Layout	*HTHO^:*HTM *SD^*CDFT^*F \$^DPPU%.03f *DUSD%-3.3s *FSMA^*DTAM *DPSD%-28.2 *ST^ *TDE%-20.20 */ST^ *CCHT*Chang 6.02f*/CCH	I^:^HTSE^ ump No. ^DFF ^/^DUSD^ ^ ^DQTY&6.03 &6.02f^^/CDF 8s^ ^FSM&^/ s^ e:^HCHD&-13. T^ THANK Y(	No. ^HFNU&O61d^ 'N&021d^ ^DPSD&-15.15s^ 'T^^CDNFT^ 'DTAM&6.02f^/CDNFT^^/SD^ ^FSMA^^TAM&6.02f^ .13s^ ^FSMA^^HCHA& DU
						Submit Delete Cance

Figure 4-67 POS Receipts Configuration Window

2. Use the Field Formatting tables to generate the receipt formatting information that goes in the Layout field.

## 4.5.1 Field Formatting

The format specification, which consists of optional and required fields, has the following form:

#### ^RCPT\_FIELD[%[flags][width][.precision]type]^

The RCPT\_FIELD consist of a string, and the options are described in a particular section named "Receipt Fields".

The format specification is not mandatory, but if present it must start with a % symbol.

Each field in lower case of the format specification is a character (or two) or a number signifying a particular format option.

*type* - Required character that determines whether the associated argument is interpreted as a string, or a number.

Character	Туре	Output Format
ld	Integer number	Signed decimal integer. Must be preceeded by a
S	String	Characters are printed up to the end of the field or until the <i>precision</i> value is reached.
f	Floating point number	Signed value having the form $[-]dddd.dddd$ , where dddd is one or more decimal digits. The number of digits before the decimal point depends on the magnitude of the number, and the number of digits after the decimal point depends on the requested precision.

*flags* - Optional character or characters that control justification of output and printing of signs, blanks and decimal points. More than one flag can appear in a format specification.

Flag	<b>M ean ing</b>	Default
-	Left align the result within the given field width.	Right align.
+	Prefix the output value with a sign $(+ \text{ or } -)$ if the output value is of a signed type	Sign appears only for negative signed values (-).
0 Blank (' ')	If width is prefixed with 0, zeros are added until the minimum width is reached. If 0 and – appear, the 0 is ignored. If 0 is specified with an integer form at (d) the 0 is ignored. Prefix the output value with a blank if the output value is signed and positive; the blank is ignored if both the blank and + flags appear.	No padding. No blank appears.
#	W hen used with the <b>f</b> format, this flag forces the output value to contain a decimal point in all cases.	Decimal point appears only if digits follow it.

width - Optional number that specifies the minimum number of characters output.

If the number of characters in the output value is less than the specified width, blanks are added to the left or the right of the values - depending on whether the - flag (for left alignment) is specified - until the minimum width is reached. If width is prefixed with 0, zeros are added until the minimum width is reached (not useful for left-aligned numbers).

The width specification never causes a value to be truncated. If the number of characters in the output value is greater than the specified width, or if width is not given, all characters of the value are printed.

*precision* - Optional number that specifies the maximum number of characters printed for all or part of the output field, or the minimum number of digits printed for integer values.

How precision values affect type:

Туре	Meaning	Default
ld	The precision specifies the	Default precision is 1.
	minimum number of digits	
	to be printed. If the number	
	of digits in the argument is	
	less than precision, the	
	output value is padded on	
	the left with zeros. The	
	value is not truncated when	
	the number of digits	
	exceeds precision.	
f	The precision value	Default precision is 6; if
	specifies the number of	precision is 0, or if the
	digits after the decimal	period (.) appears without a
	point. If a decimal point	number following it, no
	appears, at least one digit	decimal point is printed.
	appears before it. The value	
	is rounded to the	
	appropriate number of	
	digits.	
S	The precision specifies the	Characters are printed until
	maximum number of	a null character is
	characters to be printed.	encountered.
	Characters in excess of	
	precision are not printed.	

## 4.5.2 Receipt Sections

As mentioned previously, the receipt template has one or many sections. A single section may be present more than one time in the same receipt.

Sections are enclosed within an opening tag and a closing tag.

The format of the section tags has the following form:

^section^ ... ^/section^

The available sections are:

Section Tag	Section Name	Description
SD	Detail Lines	This section will cycle
		through all the PLUs
		included in the transaction.
SX	Taxes Lines	This section will cycle
		through all the Taxes
		included in the transaction.
ST	Tenders	This section will cycle
		through all the Tenders
		included in the transaction.

## 4.5.3 Receipt Fields

There are two types of fields that can be included in the layout. The value field and the conditional field.

Value fields will be replaced with actual transaction values.

Conditional fields are opening and closing tags enclosing a part of the layout that will only appear under the condition specified.

The value fields are listed in the following tables, and will be described per section:

#### **Detail Section Value Fields**

Field	Meaning	Format	D escrip tio n
DLIN	Line num ber	Number	Detail line number within transaction
DPLU	PLUID	String	
DPPU	PPU	Float	Price per unit
DQTY	Quantity	Float	Quantity of this PLU
DNAM	Net Amount	Float	Net Amount for this line
DTAM	Total Amount	Float	Total A mount for this line
DPLD	PLU long description	String	Long Description of PLU
DPSD	PLU short description	String	Short description of PLU or Bar Code description if specified
DULD	Unit Long Description	String	Measure unit long description for this PLU
DUSD	Unit Short Description	String	Measure unit short description for this PLU
DBRC	Bar Code	String	Bar Code used to identify PLU
DFPN	Pump Number	Number	Pump Number of the associated Fuel Sale
DFHN	Hose Number	Number	Hose Number, within the pump, of the associated Fuel Sale.
DFA Vxx .xx	Add In Value	String	x xxx is the tag name of the Add In V alue for that Sale. This is specific for each Add In. Since each Add In can add a tag to a sale, that tag is the xx.xx and the corresponding value will be inserted here. Ex ample "DFA VPLATE" will insert the value

#### **Tax Section Value Fields**

Field	<b>M</b> eaning	Format	D escrip tion
XID	Tax ID	String	Tax Id
XDES	Tax Description	String	Tax Description
XVAL	Tax Value	Float	V alue used to calculate tax (percentage of fixed amount)
XAMI	Amount Included	Float	Tax amount included in price
XAME	Amount Not	Float	Tax amount not
	Included		included in price

#### **Tender Section Value Fields**

Field	Meaning	Format	D escrip tio n
TID	Tender ID	String	Tender Id
ТАМ	Tender A mount	Float	Total amount of this Tender. If The amount of this tender was 10, and the total was 3 and there were 7 of change due, then this value is 10, and not 3
TDE	Tender Description	String	Description for this Tender

#### **Header Value Fields**

Field	Meaning	Format	D escrip tio n
HTID	Transaction ID	Integer	Transaction number.
			This is a
			consecutive number
			for the system and
			not for the POS or
			receipt group
HPID	POS ID	Integer	POS Id
HSID	Shift ID	Integer	Shift number. This
			is the same shift
			number as for
			pumps
HDYE	Year	Integer	Year of transaction
			in 4 digits
HDMO	Month	Integer	Month of
			transaction
HDDA	Day	Integer	Day of transaction
HTHO	Hour	Integer	Hour of transaction
HTMI	Minutes	Integer	M inu te of
			transaction
HTSE	Seconds	Integer	Seconds of
			transaction
HCID	Customer ID	String	Customer ID
НСТІ	Customer Tax ID	String	Customer tax
			identification (RUC,
			RUT, CUIT
			Number, etc)

I

Field	Meaning	Format	D escription
HCTY	Customer Tax Type	String	Customer Tax Type
	ID	-	Id
HCNA	Customer Name	String	Customer Name
HCAD	Customer Address	String	Customer Address
нстр	Customer Tax Type	String	Tax Type
HRGR	Receipt Group	String	Receipt Group
HRNU	Receipt Number	Integer	Receipt Number
HRTY	Receipt Type	String	Receipt Type
НАТО	Total Amount	Float	Total amount of
			transaction,
			including all taxes
HATX	Total Taxes	Float	Total amount of
			taxes, included and
ΗΔΝΤ	Net A mount	Float	Net Amount This is
1111111	i vot minount	Tiout	total amount - total
			taxes
НСНТ	Change Due Tender	String	Tender type for
	Туре		change due, if any
НСНА	Change Due	Float	A mount for change
ИСИР	Amount Change Due Tender	S tain a	due Tandan das arintian
нснр	Description	String	for change due if
	Description		anv
HRPT	Printed Times	Integer	Number of times
		0	this receipt was
			p rin ted
HUID	User ID	String	User ID or
UOTID	Original Transaction	Integar	Attendant ID
потір	ID	Integer	of original invoice
	10		Only for CREDIT
			transactions
HODYE	Original Transaction	Integer	Original transaction
	Year		Year in 4 digits.
			Only for CREDIT
НОРМО	Original Transaction	Integer	Original transaction
HODWO	Month	Integer	Month. Only for
			CREDIT
			transactions
HODDA	Original Transaction	Integer	Original transaction
	Day		Day. Only for
НОТНО	Original Transaction	Integer	Original transaction
10110	Hour	Integer	Hour. Only for
			CREDIT
НОТИІ	Original Transpotion	Integar	transactions
потмт	M inutes	Integer	M inute. Only for
			CREDIT
HOTCE		Tertere en	transactions
HUISE	Seconds	Integer	Seconds. Only for
			CREDIT
HODOD	0.1.1.1.	Q / 1	transactions
HURGR	Receipt Group	String	Receipt Group
			Only for CREDIT
		~	transactions
HORNU	Original transaction Receipt Number	Integer	Original transaction Receipt Number
	Keeeipt Number		Only for CREDIT
			transactions

#### Site Data Value Fields

Field	Meaning	Format	D escrip tio n
FSNU	Site Number	Integer	Site Number as
		-	configured in
			Generic
			Configuration
FSNA	Site Name	String	Site Name as
			configured in
			Generic
			Configuration
FSLNA	Site Legal Name	String	Site Legal Name as
			configured in
			Generic
			Configuration
FSAD	Site Address	String	Site Address as
			configured in
			Generic
			Configuration
FSAD2	Site Address	String	Second line of Site
	(se con d lin e)		Address as
			configured in
			Generic
			Configuration
FSAD3	Site Address (third	String	Third line of Site
	line)		Address as
			configured in
			Generic
			Configuration
FFID	Site Fiscal	String	Site Fiscal
	Identification		Identification
			number as
			configured in
			Generic
			Configuration
FSMD	Site Money	String	Money Description
	Description		as configured in
			Generic
			Configuration
FSMA	Site Money	String	Money
	Abbreviation		Abbreviation as
			configured in
			Generic
			Configuration

#### **Miscellaneous Value Fields**

Field	<b>M</b> eaning	Format	D escrip tio n
MHEXxxx	Character to be converted	N/A	This field is to convert a number to an hexadecimal character that may be later interpreted by the printer. "xxx" in the field should be replaced with the decimal representation of the
M CR	Carriage Return	N/A	character to display This field will be replaced with a CR symbol
MLF	Line Feed	N/A	This field will be replaced with a LF symbol
MCL	Carriage Return and Line Feed	N/A	This field will be replaced with a CR and a LF symbols

I

#### **Conditional Fields**

Field	Maaning	Format	Description
CRNU	Printed Timor > 0	r vi mat N / A	Data an closed in
UKINU	i iinicu i imes > 0	11 / 21	this condition will
			only be present if
			this is receipt was
			already printed
			once (Receipt
			reprinting)
ССНТ	Change Due Tender	N/A	Data en closed in
			this condition will
			only be present if
			there is change due
CCID	Customer ID	N/A	Data enclosed in
			this condition will
			only be present if
			there is a custom er
			id in the transaction
CCTI	Customer Tax ID	N/A	Data enclosed in
			this condition will
			only be present if
			there is a custom er
CTSV	Transaction Status	Ν / Δ	Data enclosed in
C15V	Void	11 / A	this condition will
	, ora		only be present if
			the transaction is
			voided
CODI	Detail Quantity is	N/A	Data en closed in
	different than 1.0		this condition will
			only be present if
			the line being
			processed has
			Q uantity different
			than 1.0
CQEQ	Detail Quantity is	N/A	Data enclosed in
	1.0		this condition will
			only be present if
			the line bing
			auantity equal to 1.0
CXEX	Tax has extra	N/A	Data en closed in
CALA	amount	11,711	this condition will
			only be present if
			the tax being
			processed has
CORT	Transaction is	N/A	Data enclosed in
	refund and has		this condition will
	Original Transaction		only be present if
	information		the transaction is a
	available		tull refund of an
CODTN	·	NT / A	original invoice
CORTN	I ransaction is	IN / A	Data enclosed in
	have Original		unis condition will only be present if
	Transaction		the transaction is a
	information		refund and no
	available		original transaction
			in form ation is
			available
CDFT	Detail is a Fuel	N/A	Data enclosed in
	Transaction		this condition will
			only be present if
			this detail item is a
			fuelsale
CDNFT	Detail is NOT a	N/A	Data enclosed in
	Fuel Transaction		this condition will
			only be present if
			this detail item is
			NOT a fuel sale

## 4.5.4 Customization Fields

The Ticket Module may be customized for different needs and regions. That is the reason why some fields and/or functionality may be available only on some installations with a specific customization group definition.

This customization group is defined in the license file and may not be changed manually.

The customization fields are listed in the following table, and will be described per section:

Header Section Customization Value Fields	
---	--

Field	M eaning	Format	D escrip tio n
ZHSATRES	Número Resolución SAT Guatemala	String	This is the number registered in the SAT regulations functionality
ZHSATFEC	Fecha resolución SAT Guatem ala	String	
ZHSATDDE	Número DESDE resolución SAT Guatemala	Number	
ZHSATHTA	Número HASTA resolución SAT Guatem ala	Number	
ZHISR	Descripción modo de pago de impuestos	String	

#### 4.5.5 Receipt Layout Example



# 5 OPERATION

DRESSER WAYNE	Jser: 🙎 ADMIN (ei	n) Store: Tor	n's One Stop(e	n) number:
FOSICIA	Configuration	<u>Operation</u>	Reports	POS
HOME > Configuration > Dev	vices > Pump	Console		
		Sales		
		Tanks		
0.000		Forecourt		
Pump		Master Tabl	es	
Implementation Id		Manuals/Do	cs	
		Database		

#### Figure 5-1 Operation Menu

In the Operations module, tasks are related to the day to day operation of the C-Store. Tasks are primarily transactional in nature and are separate from configuration maintenance.

Most of the operations of this module are complete with a message sent to the Fusion® controller, with the transaction to be performed. Fusion® validates the transaction and returns an error if an operation fails.

# 5.1 Console

Selecting the **Console** menu item will activate the Console portion of Fusion. The Console will be loaded and then displayed on the browser screen if the console function is installed on your system.

## 5.2 Sales

## 5.2.1 Transactions to Pump Test

Select **Transactions to Pump Test** to access the menu below which allows you to change the payment method of a transaction used to test a pump to a Pump Test state. The initial screen will look for all the transactions of the past three days, and display them in a table. If you want other transactions, you must use the filters provided for that purpose.

Sear	ch Trans	action		_							
Date Ra	nge 2009	0514		20090515			G	1 01			
Pump	2			~	F		Searc	h filte	ers		
Grade I	Sele	ct Value		~	)						
Paymen	t type Casi	n		*							
		_		Clear	Searc	h		-Cl	hoose Tr	ansac	tion
_						-					
List	of Pump	Sales								Add/	'Edit Sales
List of 70tal R	of Pump	Sales								Add / Sale #	Edit Sales
List ( 70tal R <u>Sale #</u>	of Pump cords: 5 End Date	Sales End Time	Pump	<u>Grade ID</u>	Volume	Money	Payment Type			Add / Sale # Pump	'Edit Sales
List ( 70tal R <u>Sale #</u> <u>10</u>	of Pump cords: 5 End Date 2009/05/15	Sales <u>End Time</u> 01:34:27	Pump 2	<u>Grade ID</u> Premium	<u>Volume</u> 6.62	<u>Money</u> 12.57	<u>Payment Type</u> Cash			Add / Sale # Pump	'Edit Sales
List ( 70tal R Sale # 10 8	of Pump scords: 5 End Date 2009/05/15 2009/05/15	Sales <u>End Time</u> 01:34:27 01:32:40	Pump 2 2	<b>Grade ID</b> Premium Premium	<u>Volume</u> 6.62 4.50	<u>Money</u> 12.57 8.54	Payment Type Cash Cash			Add / Sale # Pump	'Edit Sales
List Total R Sale # 10 8 Z	of Pump cords: 5 End Date 2009/05/15 2009/05/15 2009/05/15	End Time 01:34:27 01:32:40 01:31:59	Pump 2 2 2	<b>Grade ID</b> Premium Premium Mid-Grade	<b>Volume</b> 6.62 4.50 7.07	Money 12.57 8.54 12.72	Payment Type Cash Cash Cash			Add/ Sale # Pump	Edit Sales
List of Potal R Sale # 10 8 Z	of Pump ecords: 5 End Date 2009/05/15 2009/05/15 2009/05/15 2009/05/15	End Time 01:34:27 01:32:40 01:31:59 01:28:53	Pump 2 2 2 2	Grade ID Premium Premium Mid-Grade Premium	<b>Volume</b> 6.62 4.50 7.07 5.77	Money 12.57 8.54 12.72 10.97	Payment Type Cash Cash Cash Cash Cash			Add/ Sale # Pump	Edit Sales

Figure 5-2 Transactions to Pump Test

Once you select the transaction you wish to change to a pump test, you select the **Send Status Change** button. The transaction status change will then be sent to the controller.

Add/	Edit Sales
Sale #	8
Pump	2
S	end Status Change

Figure 5-3 Send Status Change

# 5.3 Tanks

This menu will only be configured if at least one tank in the devices to the system, and this configuration has been applied in Fusion <sup>®</sup>. Contains all the operations relating to tanks, plus some information on the current state of the same.

## 5.3.1 Calibration

infiguration	Operation	Reports	POS
	Console		
	Sales		
	Tanks	► Calibrati	on
	Forecourt	Dip Rea	ding Table
	Period Close	Dip Rea	ding/Delivery
	Master Tables	Stop Del	
		Current	Status
		Status C	hange
		Delivery	Notes



Selecting this menu brings up the Dip Reading table, Select the Tank Id of the tank you want to calibrate. The following screen will be displayed.

DRESSER WAYNE User: &	ADMIN (en)	itore: Tom's One S	top(en) number:	12345678	
Confi	guration	Operation	Reports	3	POS
HOME > Operation > Tanks > Calib	ration				
Dip Reading Table	List	of Dip Rea	ding Table	Tank 1	-
Tank	Refer	<u>ence Height</u>	<u>Volume</u>		Delete
1	10		20		
2	100		280		
2	500		1200		
Duplicate	5000		12500		
<u>Calculate all tables</u>	5555		12300		-
				1	
	-			Submit Ca	ancel
				Submit C	incer

Figure 5-5 Dip Reading Table

For example below shows the data for Tank 1. The measurement called **Reference Height** is listed millimeters, but that figure could change depending on system programming. Enter the various measurements and volumes then select the **Submit** button.

<u>Reference Height</u>	<u>Volume</u>	Delete
10	20	
100	280	
500	1200	
5000	12500	
	Subn	nit Cancel

Figure 5-6 Dip Reading Table Tank 1

Once you have created all the tables of all the necessary tanks, you then select the link **Calculate all tables**. This operation sends a message to Fusion ® to calculate the Dip Reading Tables for all the tanks that were programmed. See the next section.

http://192.168.1.20 -	Fusion Message	- Microsoft Inter	🗆 🛛
ок			~
Close Windows			
			~
E Done		🥥 Internet	

Figure 5-7 Close Window

Select Close Windows to exit acknowledgement screen.

# 5.3.2 Dip Reading Table

Configuration	Operation	Reports	POS
alibration	Console		
	Sales		
	Tanks	Calibrati	on
	Forecourt	► Dip Read	ding Table
	Period Close	Dip Read	- ding/Delivery
	Master Tables	Stop Del	ivery
		Current 9	
		Status Ci	hange
		Delivery	Vintes

#### Figure 5-8 Dip Reading Table Menu

This menu is used to determine tank volumes based on the measured fuel height within the tank. The table is based on the Calibration data entered in the previous section. Using this screen you can choose the tank, by selecting a link in the "Tank" column and the system will display a screen like the following.

Dip Reading Table	Search		Calculated Dip Readi	ng Table
Tank	Reference Height		<u>Reference Height</u>	<u>Volume</u>
1	Volume		1	0.63
2			2	1.79
3	<u> </u>	lear Search	3	3.29
			4	5.07
	/		5	7.08
	/		6	9.31
Fi	Iter Search		7	11.72
			8	14.32
			9	17.08
			10	20
			11	22.8
			12	25.67
			13	28.61
			14	31.6
	(	Calibration	15	34.64
	ta	able result	16	37.72
	L		17	40.85
			18	44
			19	47.18
			20	50.39
			First Prev 12345678910 of 250	) <u>Next Last</u>

#### Figure 5-9 Dip Reading Calibration Table

According to the data loaded during the calibration for Tank 2, the system has calculated the resulting table. The calculated data range can extend over multiple pages, so the search screen allows you to find a set of values quickly. To do this, enter the required information and select the **Search** button.

Search	Calculated Dip Reading	g Table
Reference Height	Reference Height Vo	<u>lume</u>
Volume	1	0.63
	2	1.79
Clear	Search 3	3.29
	4	5.07
	5	7.08
	6	9.31
	7	11.72
	8	14.32
	9	17.08

Figure 5-10 Dip Reading Calibration Table cont.

In the case of the "Reference Height", the search will bring a match or nothing. In the field "Volume", the system will search all records greater than the given volume. If you want to see all the data again, you can select the link "**Clear**" or clear the search fields and select the **Search** button. At any time, you can use the browser pages of data, at the bottom of the table system. See below.

	15	34.64
	16	37.72
	17	40.85
	18	44
	19	47.18
	20	50.39
First Pre	v 1 <u>2345678910</u> of 25	D <u>Next Last</u>

Figure 5-11 Additional Pages

# 5.3.3 Dip Reading / Delivery

onfiguration	Operation	Reports	POS
	Console		
	Sales		
	Tanks	Calibrat	ion
	Forecourt	Dip Rea	iding Table
	Period Close	► Dip Rea	ding/Delivery
	Master Tables	Stop De	livery
		Current	
		Status C	
		Delivery	Notes

# Figure 5-12 Dip Reading / Delivery Menu

This feature allows you to enter manual measurements of fuel.



Figure 5-13 Manual Measurements

Enter the measurement values in the columns "Product Measure" and "Water Measure." In the right hand column you can choose the measurement type that you want to use when entering data. Choose between Height and Volume.

**NOTE:** The right hand column of data entry options, "Height" and "Volume", are only enabled once you have a conversion table associated with the tank. Otherwise, the only column that can be used to enter data is "Volume".

# 5.3.3.1 Perform physical measurement:

When you have entered the required data, select the button "**Send updated data to Fusion**". The data will be sent to the controller, which will then update its measurements.

## 5.3.3.2 Start delivery

After entering the required data, select the button "Start delivery." The data will be sent to the controller, which will update its measurements. Any data not entered, will not affect existing records.

## 5.3.4 Stop Delivery

onfiguration	Operation	Reports	POS
	Console		
	Sales		
	Tanks	Calibratio	on
	Forecourt	Dip Read	ling Table
	Period Close	Dip Read	- ling/Delivery
	Master Tables	► Stop Deli	very
		Current S	itatus
		Status CI	nange
		Deliverv 1	Notes

#### Figure 5-14 Stop Delivery Menu

This feature lets you enter the measurements in order to stop a delivery.

<u>Tank</u>	Theoretic	al Measure	Product Measure	Water Measure	Height	Volume
	Height	Volume				
1 - Premium	1000	2974.130			•	0
2 - Mid-Grade	1000	2974.130			۲	0
3 - Regular	0	2974.130		-	0	0

Figure 5-15 Stop Delivery Measurements

Enter the data on this screen under "Product Measurement" then select the Stop Delivery button.

## 5.3.4.1 Finish Delivery

When you have entered the required data, you should select the **Stop Tank Delivery** button. The data will be sent to the controller, who will update its measurements to include the new product volume.

## 5.3.4.2 Interrupt Download

Anytime you can stop a delivery, which will create a new measurement which is calculated using the data from the time the delivery began until the delivery was stopped.

**NOTE:** In the event that a delivery was not started and the Stop Delivery button was selected, the system will display the and will enter the New Delivery screen.

# 5.3.5 Current Status

onfiguration	Operation	Reports	POS
	Console	69 III	
	Sales		
	Tanks	Calibrati	on
	Forecourt	Dip Real	ding Table
	Period Close	Dip Real	- ding/Delivery
	Master Tables	Stop Del	
		► Current S	Status
		Status C	hange
		Delivery	Notes



On this screen you can see with a glance, the current status of all tanks configured in the system.



Figure 5-17 Tank Status

A closer view can be seen by using the Search filter to isolate one tank and a link that leads directly to the screen "List of Dip Readings" seen above. Additionally, each tank has a traffic light icon that represents its current state. If you position the mouse cursor on the icon, a text describing the state will be displayed. Selecting the icon will open the **Send Status Change** window where you can open or close the tank.

Search Ta Tank 1	nks V earch		
Add Dip Reading	is / Deliveries ks Premium	A Contraction of the second se	
Capacity Product Volume Water Vol Empty Product height Water Height Temp	10000.00 4980.782 0.00 5019.22 1548.00 0.00 0.00	4980.782 Front Cut Last Reading : 01/05/2009 7:10:08	Traffic Light

Figure 5-18 Tank Status Light

Detailed information about the tank is available. This information consists Tank ID, Grade, capacity, Product Volume, Water Volume, Empty Volume, Product Height, Water Height, and Temperature. the date and time of the last reading is also available. Moreover, a graphic showing a drawing of the tank, conveys information in a simplified manner. The color of the product is the same as that chosen during the configuration of devices.



Figure 5-19 Tank Status Level

# 5.3.6 Status Change



Figure 5-20 Status Change Menu

On this screen you can change the status of a tank. Tanks are normally in a open or closed state. The window displays a table of tank selections.

Tan	ks			
Tank S	Tank 🛛 Select Value 💌			
	Search			
Tan Tank	Tank Status			
1	Closed			
2	Closed			
3	Closed			

Figure 5-21 Tank Status Table

Each tank is followed by it's status. Select on a tank ld number under the Tank column to display a detailed table indicating the current tank status and a **Send Status Change** button. Select this button to toggle the state.

	Select Value 🚩	Action to perform
Tem	Search	Courd Status Change (On
Tan <u>Tank</u>	Status	
1	Closed	
-	Closed	Send Status Change
2		

Figure 5-22 Change Tank Status

Each state is represented by an icon. In the title bar of the table contains the action to perform. Selecting the button **Send Status Change** will send a message to Fusion ®, which will process the state change. The states are:

Status :	Open	
Status	: Close	d
Sta	tus : Una	available
2	Status	: Offline
	8	Status : Error

Figure 5-23 Tank Status Indicators

The operation to open a tank, and move to the state "Open", is only permitted if the tank is in the state "Closed". Any other operation will seek to move the tank only to state "Closed".

## 5.3.7 Delivery Notes

onfiguration	Operation	Reports	POS	
	Console			
	Sales			
	Tanks	Calibratio	)n:	
	Forecourt	Dip Read	Dip Reading Table	
	Period Close	Dip Read	- ling/Delivery	
	Master Tables	Stop Deli	Stop Delivery	
		Current Status		
		Status CI	nange	
		► Delivery Notes		

Figure 5-24 Delivery Notes Menu

This section allows you to create notes concerning fuel deliveries and search the listing of previous notes.



Figure 5-25 Delivery Notes

Using the figure above, the total volume delivered between the beginning and end of the delivery will be assigned to the report # 1.

## 5.3.7.1 Entering a Note

The delivery note screen is displayed when you first select Delivery Notes.
HOME > Operation	NAYNE Us Co ON n > Tanks > De	onfiguration elivery Notes	Operation	
Search Deliv	/ery			Search Filter
Reference				
	9	Clear Search	]	
Delivery	Reference	Date		
2	DEL-252	01/05/2009		
1	DEL-251	01/05/2009		
	Add New	T1		

Figure 5-26 Add Delivery Note

**NOTE:** The functionality to add or modify records, can be controlled by the permissions assigned to the user.

To add a note you must select the link **Add New**, which will display the next screen, the form has been filled in with some sample data:

Doc. Type	RT			
Number	001-238563			
Date	15/05/2009	Hour	16:26:52	
Comments	National Transport I	nc.		< >

Figure 5-27 Configure Delivery Note

The "Doc. Type" will be used to indicate the identification of the record, along with the "Number". The "Date" refers to the entry date, and "Comments" field is to enter free text. Then to save the notes, select the **Add** button. Selecting this button will change the screen like this:

Number     001-238563       Date     15/05/2009     Hour     16:26:52       Comments     National Transport Inc.     Image: Comment of the state of th	Doc. Type	RT			
Date 15/05/2009 Hour 16:26:52 Comments National Transport Inc. Dettach Delivery Attach Delivery Submit Delete Ca	Number	001-238563			
Comments National Transport Inc.	Date	15/05/2009		Hour	16:26:52
Dettach Delivery Attach Delivery Submit Delete C.	Commonto				
	Comments	National Tra	nsport Inc.		8
	Detta	ach Delivery	Attach Delivery	Subn	nit Delete
List of Delivery Note Detail	Detta	Ach Delivery	Attach Delivery	Subn	nit Delete

Figure 5-28 List of Delivery Notes

You are now ready to associate the downloads with delivery notes.

### 5.3.7.2 Attach Delivery Note

To attach notes to a delivery, select the button "**Attach Delivery**", which immediately displays a floating screen.

This screen will give you a choice of which delivery you want to attach the notes to. Once you choose the delivery, select the Id of the delivery. Although the display shows multiple records, deliveries can have the same Id, therefore, if you choose to download Id 1, you can select any row that has the id "1". The system will group all records containing the Id 1.

### 5.3.7.3 Detach Delivery Note

To detach a delivery note or a delivery referral, you select the button "Detach Delivery", which immediately displays a floating screen.

Following the same functionality as in Attach Delivery.

### 5.3.7.4 Delete a Delivery Note

To delete a note you must select the **Delete** button. This will remove the note and the details and release all the attachments made to the delivery.

Doc. Type	DEL		
Number	253		
Date	15/05/2009	Hour	00:00:00
Comments	A-1 Fuel Delivery		

Figure 5-29 Delete Delivery Note

# 5.4 Forecourt

This section concerns managing operations of the Forecourt.

### 5.4.1 Current Status

Go to **Operation > Forecourt > Current Status** and the following window will be displayed.

nfiguration	Operation	Reports	POS
	Console		
	Sales		
	Tanks		
	► Forecourt	Curre	nt Status
	Period Close		
	Master Tables		

Figure 5-30 Current Status Menu

This window displays the status of the pumps as well as the ability to toggle the current status.

Fo	Forecourt Status					
Pump	Status	Sub-status				
1	Idle					
2	Idle					
$\vee$						

Figure 5-31 Forecourt Status

Selecting the link under the Pump column of the Forecourt Status table will open a Send Status Change window which you can use to send a status change to Fusion for the selected pump. This will change the status of "Available" to "Closed." In this state, the system does not communicate to the dispenser.



Figure 5-32 Send Status Change

Select the button **Send Status Change** to send a message to Fusion ®, toggling the state of the pump.

Forecourt Status	Send Status Change
Pump Status Sub-status	Pump 1 Closed
2 Idle	Send Status Change

Figure 5-33 Send Status Change Toggle

To return the pump to the status "Available", select it and select the **Send Status Change**. If there was no error, the display shows the following:

Forecourt Status	Send Status Change
Pump Status Sub-status	Pump 1 Idle
	Send Status Change
2 Idle	

Figure 5-34 Send Status Change Toggle

# 5.5 Period Close

Use this menu to manage the shifts at the site.

**NOTE:**This menu item may not appear if the installation has the license to the ticket module.

### 5.5.1 Periods Closing

Displays the last closed period, and close the currently open period.

onfiguration	Operation	Reports	POS
	Console	80	
	Sales		
	Tanks		
	Forecourt		
	Period Close	► Periods	Closing
	Master Tables		

Figure 5-35 Periods Closing Menu

Selecting the **Periods Closing** menu item to display the following screen.

Period Type	Period	Type Select	tor		Selec	t type of pe	erioc
List of Pe	eriod (	lata to clos	e				
Period Type	Status	Identification	Start Date	Start Time			
Shift	Opened	2	2009/05/18	01:19:26			
List of Cl	osed I	Period Data	3				
List of Cl Period Type	osed   Status	Period Data Identification	a Start Date	Start Time	End Date	End Time	

Figure 5-36 Select Period Type

Select the button **Close Period**, and a message will be sent to Fusion ® to close the selected period. Once the period closes it will appear in the table listing the closed periods and will open a new period.

# 5.6 Master Tables

This menu contains the Master Exports and Master Imports functions needed to export and important system data. This is particularly useful when you want to install a new station using configuration data from a similar existing station.

nfiguration	Operation	Reports	POS
	Console		
	Sales		
	Tanks		
	Forecourt		
	Period Close		
	► Master Tables	Master E	xports
		Master In	nports

Figure 5-37 Master Table Menu

# 5.6.1 Master Exports

Used to export data.

Select **Master Exports** the menu screen below will be displayed where you select the components that you want to export. Select the top box to select all of the components available. The table can vary, depending on which modules are installed. The data shown below represents the basic installation of Fusion.

		er: 🤶 ADMIN (en) Configuration	Store: T Ope	
HOME > O	peration > Master 1	Fables > Master	Exports	Salast the shaels have to
List of I Master co	Master Exports de Description	Select Master		select all settings (top box)
Fusion bas	ic setting import			
CONFG	ssf_generic_conf			
CONFD	ssf_device_conf			
TENDER	Tenders			
		Export		

Figure 5-38 List of Master Exports

Once you have selected which components to export, you select the **Export** button. The system will collect the data necessary and compress it into a file called "mastersconf.zip". Once done, a screen will be displayed asking for a path on the local machine to where you want the file (This is physical computer running Fusion ®). Once saved, the file can be copied and imported to another system at a later time.



Figure 5-39 Save Export Data

# 5.6.2 Master Imports

Used to import data.

Select **Master Imports** and the menu screen below will be displayed where you select the components that you want to import. Select the top box under the heading **Select Master** to select all of the components available. The table can vary, depending on which modules are installed. The data shown below represent the basic installation of Fusion. If the file name is different from "mastersconf.zip", the import will not work.

Select File		Browse (mastersco	nf.zip)	Ad
Master Im	ports			
Master code	Description	File available	Select Master	delete all data
Fusion basic set	tting import			
CONFG	ssf_generic_conf	8		
CONFD	ssf_device_conf	0		
TENDER	Tenders	8		

Figure 5-40 Import Data

To select the file to import, select the **Browse** button and locate the **mastersconf.zip** file. After selecting the file, select the **Add** button. The system will then decompress the file, and display the content which are then ready to be selected. The system will indicate which components can be imported through the File Available heading.

Master code	Description	File available	Select Master	delete all data
usion basic set	tting import			
CONFG	ssf_generic_conf	0		
CONFD	ssf_device_conf	0		
TENDER	Tenders	0		

Figure 5-41 Import Data cont.

Once the system indicates the files are available, you can select which components you want to import using the check boxes under the Select Master heading. Additionally, you can request to delete all existing data prior to import, in which case, you should select the check boxes under the Delete All Data heading.

If you choose not to delete existing data the system will import data that doesn't already exist, and over write the existing data with any new data. After you select the **Import** button, and the process has been completed, the system will again display the status and availability.

Master code	Description	File available	Select Master	delete all data
Fusion basic set	tting import		_	
CONFG	ssf_generic_conf	0		
CONFD	ssf_device_conf	0		
TENDER	Tenders	0		

#### Figure 5-42 Import Data cont.

In the above example, the system will import only the component "Device Config". Once you select the "Import" button, the screen is as follows:

Master code	Description	File available	Select Master	delete all data
Fusion basic set	tting import			
CONFG	ssf_generic_conf	0		
CONFD	ssf_device_conf	8		~
TENDER	Tenders	0		

Figure 5-43 Import Data cont.

The availability of the component "Device Config" has been removed because it was overwritten by the system when it imported the data.

# 5.7 Manuals/Docs

Select this option to access the Fusion documentation.

# 5.8 Database

The Database selection is used to access the database functions of Fusion. These include backup and restore the database, and backup and restore the configuration.

DRESSER WAYNE	User: 🤶 ADMIN (e	er: 🕏 ADMIN (en) Store: Tom's One Stop(en) number: 12345678 Fusion Da				
	Configuration	Operation	Reports	POS	Fleet	Security
HOME > Operation > Data	oase					
WARNING ! Following operation Following operation might take Note* This always backs up to Database Backup Database Restore Database	is, except backup, 2 to 3 minutes. Li local fusion file wi	backup config, ogin is required hich is same as	will stop the fo after these op nightly/reboot	recourt. Any i erations. backup file ar	running sale mig	ht be lost. the same file.
Database Configura	ation					
Backup Configuration						
Restore Configuration						

Figure 5-44 Database Functions

# 6 REPORTS

infiguration	Operation	Reports	POS
		Periods	
		Transactions	
		Miscelaneous.	
		Price Change	
		Tanks	
		Graphics	

#### Figure 6-1 Reports Menu

The Reports section gives the user access to a variety of reports listed under the **Reports** heading. The report types available are Periods, Transactions, Miscellaneous, Price Change, Tanks, and Graphics. When accessing the reports menus you will usually have a search function available to use which helps to locate the type of report that is needed and a **Printable Version** button or an **Export** button. The Printable Version button does not mean that the report will print to a printer but rather the report will be formatted to a print ready format which can be navigated and printed as needed.

### 6.1 Periods

onfiguration	Operation	Reports	POS
		Periods	SK.
		Transactions	
		Miscelaneous.	
		Price Change	
		Tanks	
		Graphics	

Figure 6-2 Report Periods Menu

This report selection presents a search filter, and a table of reports labelled **List of Available Periods Lists**. Use the search function to select the search criteria. Select from Shift, Day, Month, and Year and then select the **Search** button. The resulting table is a result of using the Shift filter. Select the Report Id in the Identification column to select the desired report.



Figure 6-3 Search Periods List

Once you have selected a report, the following tables will then be displayed.

Period Type	Shift 🗲	Type of Report
Identification	1	
Start Date	2009/03/02	
Start Time	10:11:46	
End Date	2009/05/18	Selecting the link is going to
End Time	01:19:26	display transactions that
Initial Transaction Nr	1	occurred during the reportir
Final Transaction ID	14	period
Relative Period ID	1	
	14	

Figure 6-4 View Transaction Details

Sales by Type			
Sale Type	Volume	Amount	
Uncontrolled Sa	ales 18	.670	\$ 3,000,017.43
Sa	ales 42	.683	\$ 78.75
Grand Total	61.	353	\$ 3,000,096.18

Sales by payment					
Payment	Volume	Amount			
Automatic	6.246	\$ 2,000,003.61			
Cash	55.107	\$ 1,000,092.57			
Grand Total	61.353	\$ 3,000,096.18			

Sales by Product			
Product	Volume	Amount	
Premium	19.218		\$ 36.51
Mid-Grade	36.915		\$ 59.70
Regular	5.220		\$ 2,999,999.97
Grand Total	61.353		\$ 3,000,096.18

Pump	Ho	se	Sale Type	Volume	Amount
	1	1-Regular	Uncontrolled Sale	es 1.520	\$ 1,999,999.98
		2-Mid-Grade	Uncontrolled Sale	es 13,450	\$ 17.46
		2-Mid-Grade	Sale	es 10.570	\$ 19.03
		3-Premium	Sale	es 2.332	\$ 4.43
				27.872	\$ 2,000,040.90
	2	1-Regular	Uncontrolled Sale	es 3.700	\$ 999,999.99
		2-Mid-Grade	Sale	es 12.895	\$ 23.21
		3-Premium	Sale	es 16.886	\$ 32.08
				33.481	\$ 1,000,055.28
Grand Total				61.353	\$ 3,000,096.18

Figure	6-5	Transaction	Details
1.94.0	~ ~	manouotion	Dotano

This table shows sales grouped by pure product.

Product	Pump	Volume
Hi Octane		
	1	11.991
	2	39.811
		51.802
Low Octane		
	1	12.780
	2	39.159
		51.939
Mid Octane		
	1	14.633
	2	45.988
		60.621
Grand Total		164.362

#### Figure 6-6 Sales by Pure Product

This table shows the logical grouping of pumps that has been defined within the **Pump Groups** programming. Those pumps that have not been assigned to any group, will be shown under a heading called "Unallocated".

Pump Group	Volume	Amount
Island 1	8.107	\$ 15.40
Island 2	200,013.101	\$ 1,000,051.90
Grand Total	200.021.208	\$ 1,000,067.31

Figure 6-7 Pump Groups

# 6.2 Transactions

There are different types of displays of transactions. The first, "All Transactions" is the main one and shows the detail of each transaction within a range of dates. Additional reports can show certain transaction times or products, etc.

# 6.2.1 All Transactions Report

Search	Sales											
Date Range	20090302	20	0090518									
Start Time	10:11:46	En	d Time 01:19:26									
Pump	SelectVa	lue			_							
Grade ID	Coloci Yo	hua hu			F F	ilters						
	Selective	iue 💌			L							
Sale Type	Select Va	lue 🚩						_				
Unit of Mea	ssure Select Va	lue 🚩			9	election	hoves		Sort	the record	ds in	
			Clear Sear	ch	C	cicotion	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	J		nalinar / al		
Excel				1.0					asce	naing / ae	escenaii	ig
							/					
Printal	le version						/					
List of I	Pump Sales						/					
Total Recor	ds: 14					V 1						
Sale # 🔽	End Date	End Time 🛛 🛛	Pump 🗹 I	lose 🗹	Grade ID	Volume	PPU 🔽	Money 🗹	Initial Totalizer	Final Volume	Sale Type 🕑	Payment Type
14	2009/05/18	01:13:58	1	2	Mid-Grade	2.016	\$ 1.800	\$ 3.63	757233.35	757235.36	Sales	Automatic
13	2009/05/15	07:29:58	1	1	Regular	0.530	\$ 1,886,792.434	\$ 999,999.99	520084.49	520085.02	Uncontrolled Sales	Automatic
12	2009/05/15	07:29:45	2	1	Regular	3.700	\$ 270,270.268	\$ 999,999.99	8367.74	8371.44	Uncontrolled Sales	Automatic
11	2009/05/15	01:34:31	1	3	Premium	2.332	\$ 1.900	\$ 4.43	415768.65	415770.98	Sales	Cash
10	2009/05/15	01:34:27	2	3	Premium	6.617	\$ 1.900	\$ 12.57	74015.59	74022.21	Sales	Cash
ç	2009/05/15	01:33:08	1	2	Mid-Grade	7.503	\$ 1.800	\$ 13.51	757225.84	757233.35	Sales	Cash
8	2009/05/15	01:32:40	2	3	Premium	4.495	\$ 1.900	\$ 8.54	74011.10	74015.59	Sales	Cash
7	2009/05/15	01:31:59	2	2	Mid-Grade	7.066	\$ 1.800	\$ 12.72	136168.54	136175.60	Sales	Cash
6	2009/05/15	01:28:53	2	3	Premium	5.774	\$ 1.900	\$ 10.97	74005.32	74011.10	Sales	Cash
5	2009/05/14	07:16:05	2	2	Mid-Grade	2.664	\$ 1.800	\$ 4.80	136165.87	136168.54	Sales	Cash
.4	2009/05/08	01:48:52	1	2	Mid-Grade	13.450	\$ 1.296	\$ 17.46	757212.39	757225.84	Uncontrolled Sales	Cash
3	2009/05/08	01:48:52	1	1	Regular	0.990	\$ 1,010,101.000	\$ 999,999.99	520083.50	520084.49	Uncontrolled Sales	Cash
2	2009/04/30	02:55:02	2	2	Mid-Grade	3.165	\$ 1.800	\$ 5.70	136162.71	136165.87	Sales	Cash
1	2009/04/30	02:49:52	1	2	Mid-Grade	1.051	\$ 1.800	\$ 1.89	757211.34	757212.39	Sales	Cash
							To	tal Volume: 61	.353 Total Money: \$ 3	8,000,096.18		
	05/18/2009 1:55	5 AM	Page 1 of 1									

Figure 6-8 All Transactions Report

This report can be sorted in ascending or descending by any of his columns. All you have to do is select the column title. The example below shows how the report display is affected when the Volume header is selected. With the first click, the report is sorted according to the volume field in ascending order, Clicking again sorts by the report by descending volume.

<u>Grade ID</u>	Volume 🧹 🔽
Regular	0.530
Regular	0.990
Mid-Grade	1.051
Mid-Grade	2.016
Premium	2.332
Mid-Grade	2.664
Mid-Grade	3.165
Regular	3.700
Premium	4.495
Premium	5.774
Premium	6.617
Mid-Grade	7.066
Mid-Grade	7.503
Mid-Grade	13.450

Figure 6-9 Sort Results

### 6.2.2 Printing

To print the report, there is a button which opens a new page, which includes all the records selected by the filter without the consultation of the page, making it possible to print the complete report.



Furthermore, this new page is formatted and ready for printing, including in it only the columns selected by the selection boxes located to the right of the column header. See the following example.

DRE	ESSER W	AYNE	Isan SADMIN	(en) Store	e: Tom's	Qne Sto	p(en) numbe	n 1234567	ę			Fusion Date: 28,	0/2009 2:32:36		Logo
	Jan		Configuration	n c	peratio	n	Repo	irts	POS		Security				
IOME > Rep	orts >	SSFT	ransactionsRe	eport - Micr	osoft l	nternet	Explorer								
		File E	dit View Favi	orites Tools	Help										1
Search S	iales	an			13	O Serve	the Second	ries @	A.B.	2.18					
ate Range	lonr	9	0		1	-	or Miran		10 3	100					
	200	Address	http://192.1	68.1.20/Repor	ts/SSFTr	ansaction	nsReport.php?	p_sale_start=	18p_sale_end=1	48s_date_from	=200903026s_date	_to=200905188s	_time_from=1011468s_t	ime_t 🚩 🛃 Go 🛛 I	Inks.
tart Time	10:	1													21
ump	Se	1													
rade ID	Se	List	ofPump	Sales											
ale Time	0.	Total i	Records: 14												
are type	50	Sale #	Find Date	End Time	Pump	Hose	Grade ID	Volume	PPU	Money	Initial Totalizer	Final Volume	Sale Type	Payment Type	
nit of Meassu	se Se	4	2009/05/08	01:48:52	1	2	Mid-Grade	13.450	1.298	17.46	757,212.39	757,225.84	Uncontrolled Sales	Cash	
		9	2009/05/15	01:33:08	1	2	Mid-Grade	7.503	1.800	13.51	757,225.84	757,233.35	Sales	Cash	
Excel		7	2009/05/15	01:31:59	2	2	Mid-Grade	7.066	1.000	12.72	136,168.54	136,175.60	Sales	Cash	
		10	2009/05/15	01:34:27	2	3	Premium	6.617	1.900	12.57	74,015.59	74,022.21	Sales	Cash	
Printable	versio	6	2009/05/15	01:28:53	2	з	Premium	5.774	1.900	10.97	74,005.32	74,011.10	Sales	Cash	
ist of Pu	ump S	8	2009/05/15	01:32:40	2	3	Premium	4.495	1.900	8.54	74,011.10	74,015.59	Sales	Cash	
otal Records	: 14	12	2009/05/15	07:29:45	2	1	Regular	3.700	270,270.268	999,999.99	8,367.74	8,371.44	Uncontrolled Sales	Automatic	
ale# 🖂 [	End Da	2	2009/04/30	02:55:02	2	2	Mid-Grade	3.165	1.800	5.70	136,162.71	136,165.87	Sales	Cash	men
4	2009.6	5	2009/05/14	07:16:05	2	2	Mid-Grade	2.664	1.800	4.80	136,165.87	136,168.54	Sales	Cash	6
100	2005/0	11	2009/05/15	01:34:31	1	3	Premium	2.332	1.900	4.43	415,768.65	415,770.98	Sales	Cash	
9	2009/	14	2009/05/18	01:13:58	1	2	Mid-Grade	2.016	1.800	3.63	757,233.35	757,235.36	Sales	Automatic	0
7	2009/0	1	2009/04/38	02:49:52	1	2	Mid-Grade	1.051	1.800	1.89	757,211.34	757,212.39	Sales	Cash	0
10	2009/	3	2009/05/08	01:48:52	1	1	Regular	0.990	1,010,101.000	999,999.99	520,083.50	520,084.49	Uncontrolled Sales	Cash	(
6	2009/0	13	2009/05/15	07:29:58	1	1	Regular	0.530	1,886,792.434	999,999.99	520,084.49	520,085.02	Uncontrolled Sales	Automatic	0
8	2009/								Total Vol	ume: 61.35	3 — Total Money	:\$ 3,000,096	5.10		0
12	2009/0	1	05/18/2009 2:3	31 AM						P	age 1 of				Aut
2	2009/0														~ C
5	2009/0	Done	6											Dinternet	9

Figure 6-10 Print Ready Version

### 6.2.3 Export Transactions in Excel Format

To export the report in Excel format, use the **Excel** button. Select this button and the system will open the document directly in Excel (if available) or it will save the report in Excel format. Note that this option is only available when running a Windows Remote Console.



# 6.2.4 Transactions By Date Report

Infiguration	Operation	Reports	POS		Security	
		Periods			- oodiii)	
		Transactions.		All Transacti	ons	
		Miscelaneous		▶ Transactions by Date		
		Price Change		Transactions	s by	
		Tanks		Incomplete F		
		Graphics				

Figure 6-11 Transactions by Date Report

This report displays a summary of all transactions by date. That is, for each day the amount and volume that was sold. A filter can be used to locate by date or unit of measure so that you can separate the sales per unit. This is useful if some fuel is sold in liters or cubic metres (CNG).

As can be seen in the area marked in the figure below, each date has a link to view the sales accumulated by time range. This will display the hour in which the sales in the report were carried out.

	51014	Configuration	Operat	ion	Reports
HOME > Repor	ts > Transact	tions > Transaction	s by Date		
Search Sal	es				
Date Range	20090508	20090518			
Unit of Meassure	Select Value				
		Clear Sea	rch		
Printable v	ersion				
Printable v	ersion				
Printable v	ersion				
Printable v	ersion				
Printable v Sales by d	ate				
Printable v Sales by d Total Records: 4 Date	ate	Money	Volume	Transaction	quantity
Printable v Sales by d Total Records: 4 Date 2009/05/18	ate	<u>Money</u> \$ 32.66	<u>Volume</u> 18.14	Transaction	quantity 9
Printable v Sales by d Total Records: 4 Date 2009/05/18 2009/05/18	ate	Money \$ 32.66 \$ 18,000,564.47	<b>Yolume</b> 18.14 342.15	Transaction	quantity 9 72
Printable v Sales by d Total Records: 4 2009/05/18 2009/05/18 2009/05/14	ate	Money \$ 32.66 \$ 18,000,564.47 2 \$ 43.16	<b>Volume</b> 18.14 342.15 23.98	Transaction	<b>quantity</b> 9 72 9
Printable v Sales by d Total Records: 4 2009/05/18 2009/05/14 2009/05/14 2009/05/05	ate	Money \$ 32.66 \$ 18,000,564.47 \$ 43.16 \$ 9,000,157.05	<b>Yolume</b> 18.14 342.15 23.98 129.96	Transaction	quantity 9 72 9 18
Printable v Sales by d Total Records: 4 Date 2009/05/18 2009/05/14 2009/05/14 2009/05/08 Grand Total	ate	Money \$ 32.66 \$ 18,000,564.47 \$ 43.16 \$ 9,000,157.05 \$ 27,000,797.33	<b>Yolume</b> 18.14 342.15 23.98 129.96 <b>514.23</b>	Transaction	<b>quantity</b> 9 72 9 18 <b>108</b>

Figure 6-12 Time Range Selection

		Configuration	Operat	ion	Reports
HOME > Reports	> Transacti	ons > Transaction	s by Date	•	
Search Sale	s				
Date Range	20090509	20090519			
Unit of Meassure	Select Value	~			
		Class Car	and a large		
		a strange and a strange and			
Printable ver	sion				
Printable ver Sales by da Total Records: 3	te				
Printable ver Sales by da Total Records: 3 Date	te	Money	Volume	Transaction	quantity
Printable ver Sales by da Total Records: 3 Date 2009/05/18	te time range	<u>Money</u> \$ 32.66	<u>Yolume</u> 18.14	Transaction	quantity 9
Printable ver           Sales by da           Total Records: 3           Date           2009/05/18           2009/05/15	te time range time range	<u>Money</u> \$ 32.66 \$ 18,000,564.47	<u>Volume</u> 18.14 342.15	Transaction	<b>quantity</b> 9 72
Printable ver           Sales by da           Total Records: 3           Date           2009/05/18           2009/05/15           2009/05/14	te time range time range time range time range	<u>Money</u> \$ 32.66 \$ 18,000,564.47 \$ 43.16	Volume 18.14 342.15 23.98	Transaction	quantity 9 72 9
Printable ver Sales by da Total Records: 3 Date 2009/05/18 2009/05/15 2009/05/14 Grand Total	te time range time range time range	<u>Money</u> \$ 32.66 \$ 18,000,564.47 \$ 43.16 <b>\$ 18,000,640.28</b>	<b>Volume</b> 18.14 342.15 23.98 <b>384.27</b>	Transaction	quantity 9 72 9 <b>90</b>

#### Figure 6-13 Sales by Time

This screen also has a **Printable Version** button.

# 6.2.5 Transactions by Hour / Pump



### Figure 6-14 Transactions by

This report provides sales information within a specified period of time. This information can be displayed grouped by pump, product, or both.

Search Sale Start date	es 20090508	End Date	20090518	Note: Uncontrolled Pump sales not included, due to
Start Time	00:00:00 💌	End Time	23:59:59	possible alterations on data
Pump	Select Val 🔽	Grade ID	Select Value 🔽	
Unit of Meassure	Select Value 💌			
Group Options	<ul> <li>● By Pump</li> <li>● by grade</li> <li>● By Pump/Grade</li> </ul>			
			Search	
Printable ve	rsion			

Figure 6-15 Search Sales

### 6.2.6 Transactions by Incomplete Presets

DRESS	R WAYNE User	🙎 (en)	Store: ()	number:	00000				
		configuration		Operatio	1	Report	s		POS
Search Inc	omplete Pr	esets							
End Date 2	0090519 🔲								
End Time									
Pump s	Select Value 🔽								
IdGrade S	Select Value 🔽								
		Search							
-									
Incomplete	a Drenavs								
Sale #	End Date	End Time	Pumn	Grade	Volume	Money	PPH	Prese	t Amount
No records				<u>arane</u>					
Grand TotalCou	nt: 0								
5/19/2009									Page 1 of 1

Figure 6-16 Transactions List of Incomplete Prepays and Presets

This report provides transaction information concerning Incomplete Presets and Incomplete Prepays over a specific period of time.

# 6.3 Miscellaneous Reports

The following sections contain miscellaneous reports grouped by function.

😤 ADMIN (en)	Store: Tom's One Sto	p(en) number: 1234567	8		Fusion Date	
onfiguration	Operation	Reports	POS		Security	
		Periods		-		
		Transactions				
		Miscelaneous	.	▶ Versions		
		Price Change		Configuration		
		Tanks		Security		
		Graphics		Running Tota		

Figure 6-17 Miscellaneous Reports Menu

# 6.3.1 Miscellaneous - Versions

This report shows the current versions of each component of the system.

Special Module	s Version	List of Results Gene	ric Modules Versi
Name	Version	Name	Version
ATGBogus	1.1.0-en	AlarmTransferAgent	1.0.1-en
Bennett-485	1.0.0-en	BIR Port	1.0.7-en
Bennett-CL	1.0.0-en	Prices	1.0.6-en
Bogus	1.0.10-en	Shifts	1.0.0-en
ComBogus	1.0.2-en	Vehicle Id Reader	1.0.2-en
DartWayne	1.3.20-en	Price Pole	1.1.0-en
Gilbarco	1.2.19-en	FusionHealth	1.0.1-en
GPBox	1.0.2-en	Autocalibration	1.0.2-en
Grade	1.0.2-en	NagiosClient	1.3.0-en
InconTS-5Series	1.1.5-en	ServiceModes	1.0.4-en
(raus	1.0.2-en	ForecourtManager	2.1.17-en
oopManager	1.0.2-en	Flow Control	1.0.0-en
TI	1.0.0-en	HyperPIB	2.1.15-en
/ledLiq	1.0.0	PAM <sup>™</sup> Emulator	2.0.6-en
Optilevel	1.1.0-en	Payments	1.1.0-en
PriceBogus	1.0.0-en	Tanks Manager	1.0.1-en
Product	1.0.9-en		
PWM	1.0.1-en		
28	1.0.3-en		
Serial	1.1.17-en		
Fank	1.1.7-en		
FankSuction	1.1.0-en		
ГСР	1.0.3-en		
eleMed	1.0.0		
Fokheim-US	1.0.11-en		
/eeder	1.2.8-en		
Wayne	1.2.47-en		
12/14/2010 8:05 PM	Page 1 of 1		

Figure 6-18 Versions

# 6.3.2 Miscellaneous - Configuration

Ro	nort Ont	ions									
() Fi	nal Configura	tion O Ten	on Configuratio	n							
	nai conngara		Searc	h							
Р	rintable ver	sion									
General	A2					Constant Party	Mater				
Ta	nk					Tanks	suction				
Id	Product		capacity	h	eight	Id	Suc	tion type	tank1	tank2	tank3
1	Premium		10000	0		1-Premiu	m Sim	ple	1		
2	Mid-Grade		10000	0		2-Mid-Gr	ade Sim	ple	2		
3	Regular		10000	0		3-Regula	r Sim	ple	3		
Pro	oduct					Grade	í.				
Id		number	Type			Id	number	High Prod	uct Lov	v Produc	t unit
Mid-	Grade	2	Low Octa	ne Unleader	t i	Mid-	2	Mid-Grade			Litres
Pren	nium	1	High Octa	ne Unleade	д	Grade	-				210 00
Rea	ılar	3	Low Octa	ne Unleader	-	Premium	1	Premium			Litres
neg			2011 000			Regular	3	Regular			Litres
Ри	mp										
Impl	ementation	Id	Loop Manag	<u>j</u> er	emulation_brand	L	.ogical ID	Real	ID	Grade	
Wayr	ne	1	CL-1 FP1			t	L	3		Regular	
						2	2	2		- Mid-Grau	de -
						3	3	1		Premiun	7
Wayr	ne	2	CL-1 FP1			1	L	3		Regular	
						2	2	2		Mid-Grau	je
						3	3	1		Premiun	7
Co	mmunica	ation				Loop N	lanage	er			
Impl	ementation		Id	Port Na	me	Id		Communia	ation		
Seria	al		CL-1 FP1	/dev/grib	port1	CL-1 FP1		CL-1 FP1			
Seria	al		CL-2 FP2	/dev/grib	port1	CL-2 FP2		CL-2 FP2			

# Figure 6-19 Configuration Data

This report shows the current configuration of the system.

# 6.3.3 Miscellaneous - Security

Search U	sers Se	ecurity			
User Id		Select Value			
Action Id		Select Value			
Role		Select Value			
		Toch de Liser O Evolude Liser			
	clas				
	<u>Ulea</u>	<u>searcn</u>			
Drintable	uercion				
Security	Data				
Total Recorde:	722				
liser Id	/JJ	Action Id	Description	Role	Role Description
ADMIN		<u></u>			
	1	REQ_FCRT_PUMPS_CONFIG_VIEW_ALL	Change the forecourt view in order to see all the pumps	ADMIN	Administrators
	2	REQ_APPLY_NEW_CONFIG	APPLY THE NEW FORECOURT DEVICES CONFIGURATION	ADMIN	Administrators
	3	REQ_PAYMENT_CLEAR_ALL_SALES	Pay all unpaid sales	ADMIN	Administrators
	4	REQ_PAYMENT_CLEAR_PUMP_TEST	Unpay a sale previously payed like \Pump Test\	ADMIN	Administrators
	5	REQ_PAYMENT_CLEAR_SALE	Pay or clear a pending sale	ADMIN	Administrators
	6	REQ_PAYMENT_PUMP_TEST	Type of Sale \Pump Test\	ADMIN	Administrators
	7	REQ_PAYMENT_UNPAY_SALE	Unpay a previous payed sale	ADMIN	Administrators
	8	REQ_PUMP_AUTH_ID_	Authorize a pump	ADMIN	Administrators
-	9	REQ_PUMP_AUTHORIZE_CALLING	Authorize all the calling pumps	ADMIN	Administrators
	10	REQ_PUMP_CLEAR_PRESET_ID_	Clear a pump preset	ADMIN	Administrators
	11	REQ_PUMP_CLEAR_STOP_ID_	Unblock the pump	ADMIN	Administrators
	12	REQ_PUMP_CLOSE_ID_	Close the pump so it won't be available till opened	ADMIN	Administrators
	13	REQ_PUMP_DEAUTH_ID_	Deauthorize a pump	ADMIN	Administrators
	14	REQ_PUMP_OPEN_ID_	Open a closed pump	ADMIN	Administrators
	15	REQ_PUMP_PAUSE_ID_	Stop a pump during a transaction	ADMIN	Administrators
	16	REQ_PUMP_PRESET_ID_	Preset a pump	ADMIN	Administrators
	17	REQ_PUMP_REAUTH_ID_	Restart a stopped pump during a transaction	ADMIN	Administrators
	18	REQ_PUMP_SET_PRICE_LEVEL_ID_	Change the price level of a pump	ADMIN	Administrators
	19	REQ_PUMP_STOP_ID_	Block the pump so it can't be authorized till unblocked	ADMIN	Administrators
	20	REQ_SHIFT_CLOSE_PERIOD	Execute shift/day/month/year period close	ADMIN	Administrators
	21	REQ_TANK_CLOSE_ID_	Close a tank and could not be actualized	ADMIN	Administrators

### Figure 6-20 Security Data

This report shows the current security settings of the system.

# 6.3.4 Miscellaneous - Running Totals

Total	s		
Pump	Hose	Total Volume	Amount
1	1-Regular	520,085.100	662,914.850
	2-Mid-Grade	608,077.200	247,747.890
	3-Premium	415,784.360	613,764.240
2	1-Regular	8,371.500	232.700
	2-Mid-Grade	608,084.320	170,014.570
	3-Premium	74,059.250	91,523.730
6/5/2009			Page 1 of 1

### Figure 6-21 Running Totals

This report shows the Running Totals of fuel transactions listed by pump and hose.

# 6.4 Price Change

nfiguration	Operation	Reports	POS	Securit
	34	Periods		
		Transactions		
		Miscelaneous		
		▶ Price Change		Price Change by Produc
		Tanks		Price Change by Date
		Graphics		

Figure 6-22 Price Change Menu

Select the menu choice to display the desired report.

### 6.4.1 Price Change by Product

Search Pri	ice Cha	nge Filt	er									
Application Date	20090503	3	200906	02								
Grade ID	Select V	alue 🔽										
Price Level	Select V	alue 🔽										
			Clea	r s	Search							
Printable v	ersion											
Price Chai	nge Re	port										
Total Records: 0	Ę											
Price ID 🛛 🗹	<u>ìrade ID</u>	Price I	evel [		pplicatio	<u>n Date</u>	<b>V</b>	<u>Applica</u>	tion Time		<u>PPU</u>	
							Pag	e1of1	First Prev	10f 1	Next	Last

Figure 6-23 Price Change by Product

# 6.4.2 Price Change by Date

Search Pri	ce Change Filter
Application Date	20090503 20090602
Grade ID	Select Value 💌
Price Level	Select Value 💌
	<u>Clear</u> Search
Printable v	rsion
Price Char	ge Report
Total Records: 0	
Application Dat	e 🗹 Application Time 🗹 Price ID 🗹 Grade ID 🔽 Price Level 🔽 PPU 🗹
	Page 1 of 1 First Prev 1 of 1 Next Las

Figure 6-24 Price Change by Date

# 6.5 Tanks

This menu is visible if there is at least one tank in the system and has been programmed into Fusion.

### 6.5.1 Daily Report



Figure 6-25 Tanks Menu

The Tanks Daily report displays the fuel tanks and data concerning levels and deliveries by date.

Search Tan	ks Daily Rep	ort			
Tank Sele	ect Value 💌				
Date Range 2009	0501 📰 200	90518			
		Searc	h		
Printable ve	rsion				
Total Records: 10	2)				
Date	Initial Stock	Sales	Other deliveries	Differences	Final stoc
01/05/2009	0.000	0.000	12500.000	7500.000	5000.00
15/05/2009	5000.000	19.218	0.000	-19.218	5000.00
Sub Tota	al 0.000	19.218	12500.000	7480.782	5000.00
Tank: 2(Mid-Gra	de)				
Date	Initial Stock	Sales	Other deliveries	Differences	Final stoc
01/05/2009	0.000	0.000	-4995.784	0.000	-4995.78
08/05/2009	5000.000	13.450	0.000	0.000	4986.550

Figure 6-26 Search Tanks Report

# 6.5.2 Manual Dip Readings

onfiguration	Operation	Reports	POS	Security
	34	Periods	NG C	1.16
		Transactions.	-	
		Miscelaneous		
		Price Change		
		Tanks	Daily R	Report
		Graphics	► Manua	l Dip Readings
			Deliver	ries
			Deliver Notes	ries vs Deliveries

Figure 6-27 Manual Dip Reading Report Menu

The Manual Reading report allows you to search by tank and date range to locate specific tank data. The table data can be sorted by clicking on any of the table headers.

Tank Selec	t Value 🔽							
Date Range 20090	501		20090518					
			Sea	irch				
Manual Read	ding Ro	eþ	ort	erence Grap	<u>n nc</u>			_
Date	Hour	Та	nk	Gra Volume	de Height	Wat Volume	ter Height	Differences
15/05/2009	6:58:34	1	Premium	1000.000	380	0.000	0	3980.782
15/05/2009	7:01:24	1	Premium	5000.000	1553	0.000	0	-4000.000
01/05/2009	7:07:40	з	Regular	5000.000	0	0.000	0	0.000
01/05/2009	7:07:40	2	Mid-Grade	5000.000	0	0.000	0	0.000
	7:07:40	1	Premium	12500.000	5000	0.000	0	0.000
01/05/2009	7.07.40							
01/05/2009	7:10:08	1	Premium	5000.000	1553	0.000	0	7500.000
01/05/2009 01/05/2009 Grand Total	7:10:08	1	Premium	5000.000	1553	0.000	0	7500.000 7480.782

Figure 6-28 Search Dip Readings

### 6.5.3 Deliveries

Infiguration	Operation	Reports	POS	Securit
		Periods		
		Transactions.		
		Miscelaneous		
		Price Change		
		Tanks		Daily Report
		Graphics		Manual Dip Readings
				Deliveries
				Deliveries vs Deliveries

#### Figure 6-29 Deliveries Menu

The report will show all fuel deliveries at the site. The display options include data with or without delivery notes attached.

Tank	Select Value						
Date Range	20090501	2009051	8				
Report Options	⊙ all ○ without at ○ with attack	tached Del.Note hed delivery note	3				
		Clear S	earch				
Printable	version						
Printable Deliveries Total Records:	version 5 3		Ve	lume	-	_	_
Printable Deliveries Total Records: Date	version 3 <u>Tank</u>	Initial Stock	Vc <u>Final stock</u>	lume <u>Sales</u>	Total	Delivery #	Delivery Note #
Printable Deliveries Total Records: Date 01/05/2009	version 3 <u>Iank</u> 9 1	Initial Stock	Vc <u>Final stock</u> 12500.000	olume <u>Sales</u> 0.000	<u>Iotal</u> 12500.000	<u>Delivery #</u> 1	Delivery Note #
Printable Deliveries Total Records: Date 01/05/2009 01/05/2009	version 3 7 9 1 9 2	Initial Stock 0.000 9995.784	Vc Final stock 12500.000 5000.000	olume <u>Sales</u> 0.000 0.000	<u>Iotal</u> 12500.000 -4995.784	<u>Delivery #</u> 1 1	Delivery Note #
Printable Deliveries Total Records: Date 01/05/2009 01/05/2009 01/05/2009	version 3 7 9 1 9 2 3 3	Initial Stock 0.000 9995.784 10000.000	Vc Final stock 12500.000 5000.000 5000.000	lume <u>Sales</u> 0.000 0.000 0.000	<b>Iotal</b> 12500.000 -4995.784 -5000.000	Delivery # 1 1 1	Delivery Note #
Printable Deliveries Total Records: Date 01/05/2009 01/05/2009 01/05/2009 Grand Total	version 3 3 9 1 9 2 9 3	Initial Stock 0.000 9995.784 10000.000	Vc Final stock 12500.000 5000.000 5000.000	lume <u>Sales</u> 0.000 0.000 0.000	<b>Total</b> 12500.000 -4995.784 -5000.000 <b>2504.216</b>	Delivery # 1 1 1	Delivery Note #

Figure 6-30 Search Deliveries

### 6.5.4 Deliveries vs Delivery Notes

onfiguration	Operation	Reports	POS	Secur	ity
		Periods		1	
		Transactions			
		Miscelaneous			
		Price Change			
		Tanks		Daily Report	
		Graphics		Manual Dip Readings	
				Deliveries	
				<ul> <li>Deliveries vs Deliveries</li> <li>Notes</li> </ul>	1

Figure 6-31 Deliveries vs Delivery Notes Menu

In this report, you can view the actual delivery data versus the information available from the delivery notes to compare actual volumes to delivered volumes. This is useful to compare fuel measurements and fuel delivery amounts.

Delivery						
Date Range 200	90501 📰 2	20090518	3			
Reference						
Grade ID Se	lect Value 💌					
Clear		S	earch			
Printable v Delivery Total Records: 0	ersion Report					
Delivery Note #	Reference	<u>Date</u>	<u>Grade ID</u>	Delivery Note Volume	<u>Delivery Volume</u>	Differences
No records						
5/18/2009 3:18 /	M			Page	1 of 1 First Prev 1 o	f1 NextLast

Figure 6-32 Search Delivery Report

# 6.6 Graphics

There are a number of statistical reports of various kinds, all grouped under this menu.

### 6.6.1 Sales

🙎 ADMIN (en)	Store: Tom's One Sto	p(en) number: 1234567	78			Fusion Date: 18/5/2009 3
onfiguration	Operation	Reports	POS		Security	
		Periods				
		Transactions				
		Miscelaneous.				
		Price Change				
		Tanks				
		Graphics		Sales		Sales by product
			1	Pump Flow		Sales by Hour/Pump
				Tanks		Sales by Hour/Product
						Sales by Product forecast

Figure 6-33 Sales Report Menu

#### 6.6.1.1 Sales by Product

One of the important fields when using filters to arrange data is the unit of measure. The unit of measure should always be considered if the site is dispensing products with the differing units of measure. This may be the case for gaseous fuels, whose unit is m3 (cubic meters), and liquid fuels whose unit is liters or gallons. If you do not take into account these values, you can make the mistake of mixing transactions which would make summary reports meaningless, because of different bases of measurement.



Figure 6-34 Sales by Product Graph

The graph shows fuels in different colors according to the percentages of volume sold out of the total. The legend box details the actual volumes sold.



Figure 6-35 Legend of Sales by Product Graph

# 6.6.1.2 Sales by Hour / Pump

Sales by Hour / Pump will result in a line graph, summarizing the data that has been filtered to isolate the relevant information. In this case, the results are a graph with sales listed hourly.

Search Sales Pump/Hour					
Date Range	20090516				
Pump	Select Value				
Units Options	⊙ by volume ○ By Amount ○ By transactions qty				
Report Options	⊙ Average ○ All day summary				
Scale Option	○ Every 2 hours ⊙ Every hour				
	Clear Search				

Figure 6-36 Sales by Hour/Pump

Using the search filter, the Unit options defaults to display by **Volume**, Report options is set for **Average** and Scale options is set for **Every Hour**. However, if you choose All Day Summary then all the transaction amounts will be added up for the selected reporting period.



Figure 6-37 Sales by Hour/Pump Graph

If you don't select a pump then the graph will be displayed with all the pumps showing but with different colors for each pump.

**NOTE:**Do not choose a specific pump may show too many pumps, making the report unreadable. We recommend that you choose a specific pump for clarity.

### 6.6.1.3 Sales by Hour / Product

Sales by Hour / Product will result in a line graph, summarizing the data that has been filtered to isolate the relevant information. In this case, the results are a graph with sales listed hourly or every two hours.

Search		
Date Range	20090504	20090605
Grade ID	Select Value 💌	
Units Options	⊙by volume ○By Amount ○By transactions q	ıty
Report Options	⊙ Average ○ All day summary	
Scale Option	⊙Every 2 hours ⊙Every hour	
		Clear Search

Figure 6-38 Sales by Hour/Product

The options in this report work the same as the previous report, Sales by Hour / Pump. The result of the current search filter is the following chart.



Figure 6-39 Sales by Hour/Product Graph

### 6.6.1.4 Sales by Product Forecast

The forecast relies on sales information related to the grade associated with the tank. Each grade can be stored in one or more tanks so sales by grade must take into account all the tank volumes where the product is stored. This means that if there is a pure product, called for example "Mid-Grade", which is housed in the tank 1 and tank 2, to report aggregated daily sales of the two tanks, you will add the sales of the two tanks for the final sales volumes of the grade "Mid-Grade".

Search Sale	s by Product	forecast
Date Range	20090516	20090518
Grade ID	Select Value	~
Periods to estimate	1 💌	
Scale Option	⊙ Daily ○ Monthly	
		Clear Search

Figure 6-40 Sales by Product Forecast

The **Periods to Estimate** pull-down contains a the number of units of time to estimate going forward from the selected "date" to be estimated. The type of period to estimate, is in the field below **Scale Options**, the choices are Daily or Monthly. Once you select the **Search** button, you get a resulting estimate in the line graph, which contains data for the period indicated and calculated according to the projections.



#### Figure 6-41 Sales by Product Forecast Graph

On the right of the graph shows the legend for the product selected.

Search Sale	s by Product	forecast
Date Range	20090516	20090518
Grade ID	Select Value	*
Periods to estimate	1 💌	
Scale Option	⊙ Daily ○ Monthly	
		Clear Search

Figure 6-42 Search Sales by Product Forecast

The following screen shows the details of the end of the current data and the estimated data for the projection.



Figure 6-43 Calculation of Forecast

For the calculation of the projections, using the method of least squares, which is basically a linear extrapolation resulting in a future estimate, with the formula Y = A + B \* X

In the case of projected sales of this report:

Y = Sales

- A = Unknown Variable
- B = Unknown Variable
- X = Coefficient

N = Number of Periods

 $A = \Sigma$  Sales / N

B =  $\Sigma$  of "X" by the Sales of  $\Sigma$  X <sup>2</sup>

#### In Summary

 $\mathbf{A} = \Sigma \mathbf{Y} / \mathbf{N} \qquad \mathbf{B} = \Sigma \mathbf{X} \mathbf{Y} / \Sigma \mathbf{X}^2$ 

It should also be borne in mind that the ways of calculating the projections vary by whether the number of period (N) is odd or even.

### 6.6.2 Pump Flow



Figure 6-44 Pump Flow Report Menu

This chart shows the flow volume through each hose nozzle.

Date Range	20090503	20090517
Pump	Select Value 💙	
Grade ID	Select Value 💌	
Report Option	⊙By Pump ○by grade	

Figure 6-45 Search Pump Flow Report

The legend shows all hoses on all pumps.



#### Figure 6-46 Pump Flow Graph

The graph shows that the flow of the hose 3, the 2 nozzle was below its normal flow rate. Once this value is reached, the graph indicates the alerts, with red spheres.

**NOTE:** If you do not choose a specific filter it can make the report unreadable because of too much data. We recommend choosing a specific filter for clarity.

The example shown with all hoses from the pump 2. When required, see individual an product hose or graph, you can select the link "**View more details**".



Figure 6-47 Pump Flow Detail

The details of the screen, if View more Details has been selected.



Figure 6-48 Pump Flow Details cont.

For each existing product line graph shows the flow for the pump chosen.

**NOTE:** If you select the graph, you get the same graph in a new screen for a clearer view.

### 6.6.3 Tanks

🤶 ADMIN (en)	Store: Tom's One Sto	p(en) number: 123456	78			Fusion Date: 18/5	5/2009 5
onfiguration	Operation	Reports	POS		Security		
		Periods					
		Transactions					
		Miscelaneous.					
		Price Change					
		Tanks					
		Graphics		Sales			
				Pump Flow			
			•	► Tanks		Dip Readings Differe	ence
			1			Stock forecast	

Figure 6-49 Tank Report Menu

### 6.6.3.1 Dip Readings Difference

In this chart you can see the differences in measurements of the tanks for the dates selected.

Search	Dip Readings	5 Difference
Date Range	20090501	20090518
Tank	Select Value	~
	Select Value 1	Search
	2	

Figure 6-50 Search Dip Readings Difference

The color of the lines in the graph correspond to the colors chosen in the configuration of devices, for grades. Once you select the **Search** button, The chart below will be displayed.



Figure 6-51 Dip Readings Difference Graph

### 6.6.3.2 Stock Forecast

The projection graph of stock by tank is calculated according to the input filters, the projection of stock to "n" periods ahead, is displayed.







Figure 6-53 Stock Tank Forecast Graph

**NOTE:** The projection method is the least squares method described in Section Reports / Charts / Sales / Product Sales Projection
# 7 CONFIGURE A PRINTER

The following instructions detail the steps necessary to set up a printer on the Fusion system. The standard printers that are used are TPG A794 or TPG A798. These instructions assumes that the connection type used for the printer is serial and that the printer is connected to Fusion using the available serial port. Perform the following steps to set up the printer:

- Create printer
- Configure Printer parameters
- Assigning the new printer to default POS (which has POS ID 0)
  - Configuring Receipt layout
  - Assigning Receipt Layout
  - Apply the entire configuration to Fusion system
  - Test configured printer from Fusion console.
  - 1. Go to **POS > Configuration > Printers** to add/see available printers.

Y		Configuration	Operation	Reports	POS	Security
HOME > POS :	> Configuratio	on > Printers				
111-60						
List of Re	sults Prin	ters				
List of Re Printer Id	sults Prin <u>Computer</u>	ters				
List of Re Printer Id No records	sults Prin <u>Computer</u>	ters				

- Printer Id Anything alphanumeric Configure it to be TPG
- Computer Fusion (typically this would remain same for fusion box)
- Type Serial (this is standard since we use serial communication for fusion printers)

DRESSER WAYNE	User: 🙎 ADMIN (en)	Store: (en) number: O	0000			Fusion Date	:: 26/5/2009 10:13:2
FUSION							
1	Configuration	Operation	Reports	; P	os	Security	_
HOME > POS > Configura	ation > Printers						-
List of Drinters			Add /E	dit Drinters			
Liscor Frincers			/ Muu / L				
Printer Id Computer			Printer Id	TPG			
No records			Computer	FUSION			
Add New				1031011	_		
			Туре	Select Value	<ul> <li>Image: A set of the set of the</li></ul>		
				Select Value		Add Cancal	
				Parallel		Mud Cancer	
				Senal			
				system			

### 7.1 Configure Printer Parameters

I

I

Select printer Id to configure printer parameters. You see similar to following screen.

	User: 🙎 ADMIN (en)	Store: (en) number: (	00000			Fusion Date	: 26/5/2009 10
Y	Configuration	Operation	Reports	PO	S	Security	_
HOME > POS > Configurat	ion > Printers						
List of Printers			Add/E	lit Printers			
Printer Id Computer			Printer Id	TPG			
TPG FUSION			Computer	FUSION			
Add New			Туре	Serial 🗸			
					Submit	Delete Cancel	
					<b>Sub</b> ilit	Delete edited	
List of Parameter	s Configuration		Add/E	lit Paramet	ers		
Parameter	Value		Parameter	Port Name 💌	]		
Port Name			Value	/dev/ttyS0			
<u>Bauds</u>		_		<u> </u>		Submit Cancel	
Parity		_				curcer	
stop bits		_					
Data bits		_					

Select each individual parameter to enter corresponding values for each of them. Add following values for the parameters.

- Bauds 9600
- Parity none
- Stop bits 1
- Data bits 8
- Flow none
- Port Name /dev/ttyS0 (Capital 'S' -Case sensitive configuration)

	AYNE User: 👷 ADMIN (en)	Store: (en) number:	00000		Fusion D.	ate: 26/5/2009 :
	Configuration	Operation	Reports	POS	Security	
IOME > POS > Con	figuration > Printers					
List of Printer	rs		Add/Edit Pr	inters		
rinter Id Comput	er		Printer Id TPG			
FUSION			Computer FUSIO	N		
Add New			Type Serial	~		
					Submit Delete Cancel	
List of Param	neters Configuration		Add/Edit Pa	rameters		
Parameter	<u>Value</u>		Parameter Flow	~		
top bits	1		Value NON	*		
lata bits	8		Sul	mit Cancel		
auds	9600			ouncer		
ort Name	/dev/ttyS0					
arity	NONE					
low	NONE					

### 7.2 Adding the New Printer "TPG" to the POS

Go to **POS** > **Configuration** > **POS** and select Pos Id "0". If we have more than one POS configured then we can select whatever POS ID we want to setup the printer. For now we use default POS which as id 0. After selecting POS you see list of parameter configuration window. Select "**add new**" and select parameter PRINTER\_ID and add printer ID "TPG" or whatever id you have given as part of printer creation.

		<b>N</b> (1)				
		nj Store: (en) numbe	n 00000		Fusion Da	te: 26/5/2009 10:16
N	Configuration	Operation	Reports	POS	Security	
IOME > POS > Co	nfiguration > POS					
LIST OF POS S	etting		Add/Ed	it POS Setting		
Pos Id Descri	otion		Pos Id	0		
2 All the F	°OS		Description	All the POS		7
Add New					Cubariti Caraa	
					Submit Cance	•
List of Para	meters Configurat	ion	Add/Ed	it Parameters Con	figuration	
Parameter	<u>Value</u>		Parameter	PRINTER_ID	*	
Tender Speed Keys	TND			Select Value		1
Period Close Group	COMMON			PAY_SPEEDKEYS		
Active POS	Y			POS_ACTIVE	Add	9
POS Number	1			POS_NUMBER		
Invoice Receipt Grou	<u>up</u> 0001			RECEIPT_GROUP		
Credit Receipt Grou	2 1001			RECEIPT_GROUP_CREE		
	Add New			PERIOD CLOSE GROUE		
				TRANSIT		
				CUST_DISP_COM		
				CASH DRAWER SEQ	1	

### 7.3 Assigning Receipt Layout

1. Go to **POS > Customers > Customers Types** and the following window will be displayed.

	JE User: 👷 ADMI	N (en) Store	: (en) number: O	0000		Fusion Date	26/5/200°
N	Configura	tion C	peration	Reports	POS	Security	
HOME > POS > Custom	ers > Customers	s Types					-
Search Custome	er Types	Search					
List of Custome	r Types			Add/Edit Cus	tomer Types		
Customer Type code	<b>Description</b>			Customer Type code	GEN		
GEN	Generic			Description	Generic		
Add New				Sale Ticket	Select Value 🔽		
				Credit Ticket	Select Value SALE		
				Taxes Group	Select Value 💙		
						Submit Delete	Cancel

- 2. Select customer type **GEN**.
- 3. Select the default receipt layout for sale ticket and select **Submit**. The example above has a receipt format called SALE.

### 7.4 Configuring Automatic Receipt Printing

Go to POS > Configuration > POS and select Pos Id "0". If there is more than one POS configured then select whichever POS ID that you want to setup the printer. For now use default POS which as id 0. After selecting the POS ID you see the List of Results Parameter Configuration window. Select "add new" and select parameter RECEIPT\_PRINT\_IMMEDIATELY. Select Add to add the parameter to the List of Results

RECEIPI\_PRINI\_IMMEDIATELY. Select **Add** to add the parameter to the List of Results Parameters Configuration.

	N		15er: 00000			Fusion Date: 28
Y	Configuration O	peration Re	ports F	os	Security	
OME > POS > Configura	ation > POS		νώ.	a sin		
List of Results PO	S Setting		Add/Ed	lit POS S	etting	
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D All the POS	5					
Add New			Description	All the POS		
<u>Hou nom</u>						Submit Cancel
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 Select the Print Receipts immediately parameter which is now listed in the List of Results Parameters Configuration table. Select the Print Receipts immediately pull-down to select the behavior of the receipt printing function.

	RESSER WAYNE	ADMIN (en)	Store: Tom	's One Stop(en) nu	mber: 12345678	3	Fusion Date: 8/12	/2010 3:00:59	Log
	Con	nfiguration Op	peration	Reports	POS	Fleet	Security		
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	-								
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<u>0</u>	All the POS			Descriptio					
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List of R	Describes Described								
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- 3. Select from:
  - \* No, Manually to only print the receipt manually
  - \* Yes, Automatic to print the receipt automatically (default)
  - \* No, but open drawer to print manually but open the drawer
- 4. Select the default receipt layout for sale ticket and select **Submit**. The example above has a receipt format called SALE.

**NOTE:**This setting can be used to save receipt paper

#### 7.5 Configure a Report Printer

The following steps are used to configure an Epson Stylus NX100 105 as a report printer. Most other printers can be configured similarly when setting up other printer types.

# NOTE: Report Printer configuration can only be carried out from the WEB UI accessed from the Console.

- 1. Connect the printer using a USB cable.
- 2. Select Configuration > Others > Configure Report Printer.
- 3. The Common UNIX Printing System (CUPS) page will be displayed where you select the **Add Printer** button.
- 4. Enter a printer name in the Name field, this can be any name made up of printable characters except spaces "/" and "#".
- 5. Enter the location of the printer (back\_room, under\_counter, etc.)
- 6. Enter the description of the printer (ex. Epson\_Stylus\_NX100) and select the **Continue** button.
- 7. Next, the Device screen shows a list of devices to select from, Select the **Epson Stylus NX100 USB** or similar device if it is attached to USB.
- 8. Select the Make of the printer and select **Continue**, then select the Model of the printer and select **Add Printer**.
- 9. A pop-up is then displayed asking for your user name and password. Enter the login ID (fusion or admin) as the user name and the password of the Fusion box and select **OK**.

**NOTE:** You can make additional configuration changes to the printer such as paper size, color, print quality and more based on the model of the printer.

10. The printer should be available to choose for printing. You can go back to print any report and select the recently added printer from the list.

### 7.6 Apply the Entire Configuration to the Fusion System

This is Final step in the process.

1. Go to **POS > Configuration > Maintenance > Apply Configuration** this will open a pop up window with status.



### 7.7 Testing the Printer

1. Start Fusion Console if it is not running. If it is already running, restart Fusion Console for recent printer changes.



- 2. Log in to Fusion then Select **Config > Printer**.
- 3. You should see printer with the id 'tpg' or whatever the name you have given appear as a printer icon. If the printer is not added then you won't see printer icon here. You can validate printer configuration too here.
- 4. Select **Test Page** and if you see printer printing "print test" 4 times then you have successfully configured the printer.

## **PROGRAMMING MANUAL**

## Wayne Fusion P/N 940037

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