IC CARD SYSTEM

Function & Design Report

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Chapter 1 <u>Simple Introduction for Whole System</u>

1.1 <u>Simple Introduction:</u>

REALTECH IC Card AUTOMATION system has more stronger function for station's management of oil importing, retailing and stock, it can reduce the customer's cash occupation percent, get much deposit from the driver .the system security reach the bank's standard, archive the function of self-fueling. And also can increase the method of sales promotion, such as give a favourable price based on customer's level.The detail and manual can see the Technical Proposal. Current REALTECH IC Card System will have those advantages:

- 1 Uniform price ---- Once Head office install the IC card system, Head office can control all the unit price for product. And Station can not change the unit price.. base on the different region the product's price is different, also the Head office can set unit price by Region, City or Station.
- 2 Each Head office can receive all transactions from all station.and also included the Import oil information. By this way, the Head office can monitor complete sales of each stations. So in the daily sales report, it will should how many volume in tank, how many volume

4

import today and how many volume was sold. By this way, the head office will clear to calculate and Monitor the station status.

- 3 Tank System in station, right now not only station office Tank System will have alarm for the leakage, low product, high water or high product, it also will send those information to Head office. by this way, Head office can quickly save the produce and avoid the damage.
- 4 right now Customer can log on the IC Card website to qurey his transactions. The Group Manager can transfer the money to his driver's card. And the group company can ele-transfer the money to head office, Then Head office will deposit that Amount online. By this way, it will be more conveniency for all customers.
- 5 In the station level, it has two level operation roles. The Normal staff only can do some qurey and shift close. And Only station Manager can do setting fuctions.
- 6 Functions of New IC Card:
 - Car Number limit--- e.g. the customer need enter the car number when issue the card. Then customer use this card in the station, once the card insert into card the reader, the keypad's display will show this car number. The employee need check this number with fueling car number. If it is match, we can allow it to fuel. If not, we can refuse it.
 - Limit Oil Type--- E.g. according the oil type limit when the card used into station, it will only allow to fill gasoline xx or gasoline xx or diesel.
 - Limit Quantity per Day---E.g it is limited 10 Liter per day when issue the card, this card only allow the owner fill 10 liter per day. Once exceed this quantity, it would not allow this card to fill again.

• Limit Times per Day--- E.g it is limited 2 times per day when issue the card, this

card only allow the owner fill 2 times per day. Once exceed this frequency, it would not allow this card to fill again.

• Limit Amount Per Day--- E.g it is limited 10 usd per day when issue the card,

this card only allow the owner fill 10 usd per day. Once exceed this amount, it would not allow this card to fill again.

- Limit volume per Month---- E.g it is limited 50 Liter per month when issue the card, this card only allow the owner fill 50 liter per month. Once exceed this quantity, it would not allow this card to fill again.
- Limit amount per Month ---- E.g it is limited 100 usd per Month when issue the

card, this card only allow the owner fill 100 usd per Month. Once exceed this amount, it would not allow this card to fill again.

• Limit Odometer--- it need enter 10liter (the 100 km fuel consumption) and Oil

Quota Range (5%) when issue the card. First time the old odometer is 1000 km and fuel 20 liter. Second time he go to fuel again, the new odometer need during = $1000+20*100*(1\pm5\%)$

- Limit Region/City/Station --- E.g it will only allow this card fuel in the limit Region/City/Station, other place will not allow to fuel.
- Limit Non-Fuel Service--- E.g it allows this card to do car washing or change engine oil or not.

Base on ITB Project, REALTECH will develop the system as like:

- Each Head office will be change to Sub-central System at Distribution Companies' Headquarters.
- Develop the new Head office--- Central System at SPC
 Headquarter.
- The Sub-Central will send Daily sales to Central System at SPC
 Headquarter.

- 4 Central System at SPC Headquarter can montior each sub-central's Sales and stock of oil
- 5 The new Depots system, which will change some information base on the station IC card system.
- 6 we need clear and definite this software only receive the report from sub-central companies. It do not receive every transaction from every station. Why we do this as following reasons:
- if SPC headquarter receive every transaction, which we need build very big server and Strong software to hold those datas. For example: CNPC and Sinopec company used 5 years to develop this system, and spend more than one hundred million just to develop this system.
- 2. REALTECH system has Designed to prevent the some crimes:
 - REALTECH IC Card dispenser can not change the Eletronic Totalizer (Liter), and every transaction from dispenser will be sent to Station PC.
 - Even the dispenser has problem and the mainboard lost the electronic totalizer. But when it did the last transaction, the dispenser has writen the last totalizer in the station PC. Then the maintain employee change the new mainboard and need write the problem why change the mainboard. And in the shift report this dispenser's balance will be calculated like this. Total filling volume this nozzle =(the end reading of the old mainboard the

beginning reading of old mainboard) + (the end reading of the new mainboard – the beginning reading of new mainboard).

- In the shift report it will calculate as above format. And the report also will calculate the tank's status, the format is like this: the Balance = the volume at the beginning of the shift + import oil during this shift the volume at the end of the shift –Total filling volume this shift. This balance can be setting like do not exceed 100Liter. Otherwise will send the report to Headquater. (the volume of tank is read form tank system)
- Right now, we also build the system for the depots. And the depots system also communicate with flow meter and tanks. By this way, the headquater only need do calculation about the balance between the station sales and depots balance.
- 7 If any problem happens, the SPC has super account to log into every sub central system to monitor every transaction.

The whole system includes 6 software as following:

1.1.1 Secret Key Manage:

The main function of secret key manage is to build the secret key. The system should be inputted 2 different password (the best to be controlled by 2 different person) to build the secret key. The secret cannot change once it is build. It is top important. So some time we also call it mother card. And the entire IC card which will be issued by this system will be all based on this secret key.

1.1.2 Center Build Card system:

The main function of build card system is the initialization of empty card (supplied by card manufacturer) and the PSAM card. It will fill the sub-key which get from the secret key system into the empty card and the PSAM card, make them become the admissive card of my system. And also write the card type, expire date, card number into those card.

1.1.3 Data Center System:

The main function of data center is to receive and send the data from each gas station and issuing card site. Include the configuration of issuing cards site, gas stations, company information, system user, and employee management, oil product management, unit price management, black, white, grey list inquire, oil import inquire, sales record inquire, customer information inquire.

1.1.4 Issue card Manage:

The main function of issuing card system is to issue card to all different user. To setup the basic information of card user, and setup the card's function, and all the operation of card, include inquire and report for all the operation.

1.1.5 Gas Station Manage:

The main function of Gas station management system is to monitor the fuel dispenser and collects the data of the fuel dispenser and make analysis. Include configuration of fuel dispenser, level monitor system, tank, employee management, shift management, import, retail, stock of oil, check –out, data inquire, communication with the data center.

1.1.6 **Center Accounting:**

This Accounting system is running in the HO, which receives all the data from station, issue card center, transfer data from custom and etc. The system will account all data and summarize them to report, information for website, etc.

1.2 System configuration requirements HW & SW

1.2.1 HO level:

- CPU: 2.4GH
- RAM: 4GB
- Hard dick : 400G (10 STATION FOR TESTING)
- DISPLAY: 1024*768
- INTERNET: ADSL
- SYSTEM:, Windows Server 2003

• VPN: WE HAVE ONE IN YOUR SIDE, which can supply to 10 station test.

1.2.2 Station level:

- CPU: 2.4GH
- RAM: 2GB
- Hard dick : 100G (10 STATION FOR TESTING)
- DISPLAY: 1024*768
- INTERNET: ADSL
- SYSTEM:, Windows XP
- VPN: small model

Chapter 2

Procedure of System Initialization

2.1 **Procedure of System Initialization**

- Secret key Management System
 - Build secret key
- Build Card System
 - Build PSAM card
 - IC card initialization
 - Build IC card
- Data Center Management System
 - Center employees management
 - Gas stations management
 - Issuing cards sites management
 - Employees of issuing card sites management
 - Employees of gas station management
 - o Oil product management
 - Non fuel product management
 - Oil unit price management
- Issuing Card System
 - Issue internal card [customer card]
 - Issue employee card

- ✤ Gas Station Management System
 - Employee management
 - Gas station basic information configuration
 - Oil tank configuration
 - Fuel dispenser configuration
 - Shift management

Chapter 3

Secret Key Management System

3.1 Build Secret Key

A. Start secret key management system and enter the name and password.

User	infomations		
	User Name		
	administrator		
	Password		
	•••••		
			_
	Login	Exit	

B. Click "Generate key" button, come out the window as below.

🦧 Car	d Naker	X
Languag	çe -	
	Key Generator	
	Create User Card	
	Create PSAM Card	
	Close	

C. Input 2 different passwords by 2 different senior managers, then

click "ok" the secret key is built. (Remark: the password should be

kept very carefully)	<u>ully</u>).
----------------------	----------------

ey Ge	nerator	
Key Se	ed Information	
	Old Seed A(Length of 16 characters)	New Seed A(Length of 16 characters)
	Old Seed B(Length of 16 characters)	Seed B(Length of 16 characters)
	•••••	•••••
	Note: the default old seed of A and B	were 11111111111111.
		Treate Save Close

- D. Exit from the secret key management system.
- The generated key is build of 16 digits; it can be numeric or alphabetic.
- ✓ Once it has been built, it will be stored in the IC card system in the head office.
- $\checkmark\,$ It will be secured and protected as same as bank card system.

Chapter 4 <u>Build Card System</u>

4.1 Build PSAM Card

A. Start Build card system

B. Click "Build SAM Card".

rd Infomation				
Reader				~
Card Type	SINOPEO	PSAM		~
Transfer Key	FFFFFF	FFFFFFFFFFFFFFFFFF	FFFFFF	
ease select card	manufact.	ire		
OT	naKe		O LanTian	ACOS

C. Insert the PSAM card into the card charger, then input the Transfer Secret Key, click "Build card". [This key to be provided by REALTECH]

4.2 IC Card Initialization

- A. Click "Build User Card"
- B. Insert the empty IC card into the card charger, select the card supplier, input the transfer secret key (this secret key is from the card supplier), click "Init First", means new card initialization.

4.3 Build IC Card

A. Click "Build User Card"

lanufacture	ACS			~
ransfer Key	11111111111111111	111111111111	1111	
olic Infomatio	n			
Card Type	Prepaid customer 💌	No.	00000021	
/alid From	2014- 7-30 🗸	Valid To	2019- 7-30	~
ader Selection Reader	ACS ACR 1281 1S Dua	al Reader PICC	:0	•

- B. Insert the initialized IC card into the card charger, select the card supplier, then select the card type, input the serial number(card number), then click "build". [Is this serial number can be anything up to me or what?] It will be send by card supplier. So it will be from REALTECH.
- C. After built successfully, it will come out a clue window, click "ok", it will come out a window as below, if you want to build same type IC card, please insert another initialized IC card into the card charger, then click "ok", the new card number will be added 1 automatically.

Hint			
2	Please insert a new one , Then ca	n keep on building User(Card,Are you ready?
	Yes	No	

D. After build card, click "close" to exit from the "Build Card System".

Chapter 5

Data Center Management System

5.1 System Registration

a) Logon the REALTECH CENTER SYSTEM website, use the super

account "Admin" password"456789" click "log in".

	User
	admin
Ť	PWD
BLUE SKY	
ELECTRONIC	Remember me
	Log on

b) Then Click "Admin" on the website. The password will 16dight

and it can be numeral and character.

BLUE SKY ELECTRONIC	Centor System 800-124-1246	Hille admin! Log Off
	Administrator Summary Data Station Service Data Analysis Card Service	
	Home	
 ar admin. welcome login in issuin Center management syst Technology and service more information way 	ag Center System tem is the database arrangement and gathering center of all gas stations, to realizes all the function of configuration, inquiery, statistics and so or es ou can call our technical service center or visit our website.	a for whole system.

c) Click the menu bar "system"---"registration", input 16 digits code in the "registered code" item, click "register". [This 16 digits code will be used at HO and station, when you frist time logon the system. And this registered code will get from REALTECH].

5.2 System's Users Management

- a) Setup the Head office information. Click the menu bar
 "Adiministrator"---"Site Management" and write the information for Head office.
- b) Setup the Central Users: click the menu bar "Administrator"---"Employee Management", click "Create ", Select the Site name for the Head office's Name. input the user name and other information in the "add user" window, the last selection "Role name" please select Admin. then click "Create".

(BLU	5. JE SK	r Cen			NAST 800-1	24-1246					Hello	o, <u>admin</u> ! Log Off		
						Summary Da	ita Stat	tion Service	Data Analysis Card Ser	vice				
				Region Mar	nagement									
				City Manag	ement		ndant Cor	figuration					1	
selecting	g conditions			Site Manag	ement									
Region			City	Roles Mana	gement									
all		~	all	DataVersion	n Managem	ent		~	QQuery					
Create				Fuel Manag	ement									
Station Attendant Code	Name	Login name	Inner code	Price Mana Vendors Mi	gement anagement		Gender	Birthday	Address	Phone	Postal	Memo	Edit	De
221004	Sudairy Foreman	Sudairy Foreman	1	Distribution	Points		Male					StationEmployee	20	
221034	Ahram Foreman	Ahram Foreman	1	Coupon Ma Company N	nagement Managemen	t.	Male	6/5/2014 12:00:00 AM	111111111111111111111111111111111111111	11111111	111111	StationEmployee	2	
100006	Emad Elsemary1	Emad Elsemary1	2	DB Backup			Male					StationEmployee	20	
100005	admin	admin	3	DB Restore	*78*		Male					admin	2	
100009	Emad Elsemary	Emad Elsemary	2	Jeddah Office	ID Type	2075516456	Male					admin	20	
221003	Hakabany Foreman	Hakabany Foreman	1	Jed- Hakabany	ID Type	221003	Male					operator	20.	

LEEDTROMO	Administrator	Summary Data Station Servi	ce Data Analysis Card Service	
		Station Attendant Configurat	ion	
ite Name	Name V	Station Attendant Code(6)	Inner code(Scope 0~99)	
ogin name	ID Type	ID NO.	Gender	
		~	Male	
lirthday	Address	Phone	Postal	
Iemo	Role Name			
	StationEmployee	Create		
	admin StoreUser			
	CardUser GroupUser StoreAdmin			

c) The Admin account only can use one time. Once we finish update the new operator for the system, please log off Admin, use the new operator account to setting.

		Administrator	Summary Data	Station Service	Data Analysis	Card Service	
			H	mo			
							<u></u>
Timzheng:							
welcome login in issu	ng Center System	1 concernant and cothering	center of all gas station	us, to coolizes all the fun	ation of configuration	inconers, statistics and s	o on for whole cruter
Conter management av		angement and gamering	center of an gas station	is, to realizes all the run	iction of configuration,	inquery, statistics and s	o on for whole system.
Center management sy	aem is the database art						
Center management sy Technology and servi	es						
 Center management sy Technology and servi for more information , Phone: +86-(577)-886 	es ou can call our technic 5098-8007center	al service center or visit	our website.				
Center management sy Technology and servi for more information , Phone: +86-(577)-886 Email: BlueSkycenter@	es ou can call our technic 5098-8007center sohu.com	al service center or visit	our website.				

d) Setup the user authority: select the user in the user bar of the "Role Management" window; setup the user function authority in the right menu bar, after setup, click "setting" button to save. (Mark: the employee ID number will be 6 digit)

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	Administrator Sun	imary Data Station Ser	rvice Data Analysis	Card Service
		Roles Configuration		
Create Role Name	Mama	Fair	Dalata	Rale Management
idmin	adminstrator	2011		
StoreUser	Storeemployee	2	î	8
ardUser	CardUser	<u>le</u>	t i	Ĥ
GroupUser	GroupUser	2	11	8
toreAdmin	StoreAdmin	2	1	8
itationEmployee	StationEmployee	2	1	8
perator	operator	2	11	A
roy	12	2	ŵ	8

5.3 Gas Station Management

a) Before Setup the gas station number: click the menu bar
 "Administrator" --- "Region Management", click "Create", and input the information.

BLUE SKY ELECTRONIC		nter System				
Create		Administrator Summary I Region Management City Management Station Management	Data Station Ser	vice Data Analysis	Card Service	
Role Name		Roles Management	Edit	Delete	Role Management	
ıdmin	adminstrate	DataVersion Management	2	î	â	
StoreUser	Storeemple	Employee Management Oil Management	2	1	8	
CardUser	CardUser	Price Management	20	î	8	
GroupUser	GroupUser	Vendors Management Coupon Management	20	1	<u>a</u>	
StoreAdmin	StoreAdmi	DB Backup	20	î	8	
itationEmployee	StationEmp	DB Restore	2	1	â	
perator	operator		2	1	â	
oy	12		2	î	8	
wing 1 to 8 of 8 entries					First Previous 1 Next Last	

b) click the menu bar "Administrator" --- "City Management", click"Create", and input the information.

	Administrato	summary Data	Station Service	Data Analysis	Card Service	
		City Con	figuration			
City Code (3)	City Name	Region		Inner code (4)		
			~			
Create						
Code description						

c) Then click the menu bar "Administrator" --- "Station Management", click "Create", and input the information.to those items "stations Name", "station code", "station manager", then click "Save". (Mark: it will Select the station belong to which Region, the item city. Because we can set up the Unit price of Oil base on Region, City and Station)

BLUE SKY ELECTRONIC						
	Administrator	Summary Data Station Ser	vice Data Analysis Card Service			
		Station Configuration				
Station Code(7)	Station Name	Station Type	City			
			× · · · ·			
Postal	Address	Phone	Fax			
Station Manager	Contacts 1	Phone 1	Email 1			
Contacts 2	Phone 2	Email 2	Contacts 3			
Phone 3	Email 3	Memo				
			⊕ Create			

d) Modify the gas station information: in the gas station list there is "Edit" can click *(example)*, make the gas station information displayed on the top content area, after modify the information, and then click "modify".

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		1	and a second second			and a second second					
		A	dministrator	Summary I	lata Stati	on Service	Data Ana	ilysis Card Service			
				Statio	n Configura	tion					
selecting con	ditions	Cim							-		
all	v	all			env						
1											
										2	
Station Code	Station Name	Station Type	City Name	Postal	Address	Phone	Fax	Station Manager	Edit	Details	Delete
Station Code	Station Name 公司总部	Station Type 公司总部	City Name wenzhou	Postal	Address	Phone	Fax	Station Manager	Edit	Details	Delete
Station Code 000001 000001	Station Name 公司总部 温州1=加油站	Station Type 公司总部 加油站	City Name wenzhou wenzhou	Postal	Address	Phone	Fax	Station Manager	Edit	Details	Delete
Station Code 000001 000001 000001	Station Name 公司总部 温州1#加油站 杭州发卡点1#	Station Type 公司总部 加油站 发卡点	City Name wenzhou wenzhou hangzhou	Postal	Address	Phone	Fax	Station Manager	Edit	Details	Delete
Station Code 000001 000001 000001 000001 000001 000002	Station Name 公司总部 温州1=加油站 杭州发卡点1# 杭州发卡点2#	Station Type 公司总部 加油站 发卡点 发卡点	City Name wenzhou wenzhou hangzhou hangzhou	Postal	Address	Phone	Fax	Station Manager	Edit	Details	Delete
Station Code 0000001 0000001 0000001 0000001 0000002 0000007	Station Name 公司总部 温州1=加油站 杭州发卡点1= 杭州发卡点2= 温州三号加油站	Station Type 公司总部 加油站 发卡点 发卡点 加油站	City Name wenzhou wenzhou hangzhou hangzhou wenzhou	Postal 132	Address 123	Phone	Fax 123	Station Manager	Edit	Details	Delete
Station Code 0000001 0000001 0000001 0000001 0000002 0000007 0000003	Station Name 公司总部 温州1=加油站 杭州发卡点1# 杭州发卡点2# 温州三号加油站 温州三号加油站	Station Type 公司总部 加油站 发卡点 加油站 发卡点 加油站	City Name wenzhou hangzhou hangzhou wenzhou wenzhou wenzhou	Postal	Address 123	Phone 123	Fax 123	Station Manager	Edit 22 22 22 22 22 22 22 22 22 22 22 22 22	Details	Delete Deleter De
Station Code 0000001 0000001 0000001 0000001 0000002 0000007 000003 000009	Station Name 公司总部 温州1=加油站 杭州发卡点1= 杭州发卡点2= 温州三号加油站 温州发卡点1= 龙州发卡点2= 温州支卡点1= 龙州发卡点1=	Station Type 公司总部 加油站 发卡点 加油站 发卡点 加油站 发卡点 加油站	City Name wenzhou wenzhou hangzhou wenzhou wenzhou Z1	Postal	Address 123 LL	Phone	Fax 123	Station Manager 123 L	Edit 22 22 22 22 22 22 22 22 22 22 22 22 22	Details	Delete
Station Code 0000001 0000001 0000001 0000001 0000002 0000007 0000003 0000009 0000009 0000002	Station Name 公司局部 温州1=加油站 杭州发卡点1= 杭州发卡点2= 温州三号加油站 温州支卡点1= 杭州发卡点1= 植州支卡点1= 杭州发卡点1= 杭州 北市油站	Station Type 公司总部 加油站 发卡点 加油站 发卡点 加油站 发卡点 加油站 发卡点 加油站	City Name wenzhou wenzhou hangzhou wenzhou wenzhou Z1 hangzhou	Postal	Address 123 LL	Phone	Fax 123	Station Manager		Details	Delete

5.4 Issuing Card Sites Management

- a) Right now IC Card system use Internet to issue the card. So we only need set the station manager's Role management, let them can issue the card when they use the PC in station.
- b) Increase the issuing card sites : click the menu bar "Administrator"---"Role Management ", input the information to those items "site name", " site number", "site manager", "contact telephone", "address", click "add". (Remark: The issuing card site number is make up of 8 digits, the former 4 digits is 0, the fifth digit is 2, and the last 3 digits is the actual code for card-issuing point).
- c) Modify the issuing card site information: Double-click the issuing card site record in the list, make the site information displayed on the top content area, after modify the information, and then click

"modify" to confirm.

5.5 Issuing Card Sites & Gas Stations Staff Management

- a) increase employee : click the menu bar "Data Center configuration "--- "employee manage", input the employee name in the " employee name" item, select the certificate type, input the certificate number, then choose the affiliated gas station and issuing card site, click "ADD". (Mark: the Employee Number will be 6 digits).
- b) Modify employee information: Double-click the employee record in the list, make the employee information displayed on the top content area, after modify the information, then click "modify".

itation ID	mployee Cod	Employee Name	ID Type	ID No.	Status		Memo
0001001	1	bluesky1	1	1	0	1	
0001001	2	bluesky2	1	1	0	1	
0001001	3	bluesky3	1	1	0	1	
0002001	1	bluesky1	1	1	0	1	
0002001	2	bluesky2	1	1	0	1	
0002001	3	bluesky3	1	1	0	1	

5.6 Oil Products Management

a) Increase oil product: click the menu bar "Administrator"---"Oil

Management", then click "Create", after input the Name, oil name,

Aliase, click "Create" to save.

BLUE SKY	Center Sy	stem		<			
		Administrator	Summary Data	Station Service	Data Analysis	Card Service	
			Oil Conf	iguration			
No.	Name		Alias		• Create		
Back							

5.7 Oil Price Management

- a) The gas station management system cannot modify the oil unit price;
- b) The oil price should be modified in the Center system and download to carry out.
- c) Click the menu bar "Administrator" ----"Prices management", choose the gas station site and oil product, input the new unit price in the "new oil price", choose the new oil price validate time in the "validate time" item, (If you want the unit price become validate immediately, as long as set the validate time earlier than the current time). Then click "update", "exit".
- d) <u>After modify the unit price in the Data Center Management system,</u> <u>the unit price information have not issued to all the gas stations, so</u> <u>need to click "download data center" in the Gas Station</u>

Management system, click the menu bar "fuel dispenser communication" ---- "update the oil prices information". (Mark: the head office can change the price by Region or city)

					Price Configu	ration				
selecting con	ditions									
Region			City	Sta	tion Name					
all		~	all	✓ al	1	× Q	Query			
Create										
Station Name	Region	City Name	Oil specification	The current price	The new price	The current density	The new density	The effective time	Edit	Delete
温州1≢加油站	zhejiang	wenzhou	#93	5.7	5.7	0.8	0.8	5/24/2014 12:00:00 AM	2	Û
温州1≕加油站	zhejiang	wenzhou	#97	6.58	26.58	0.5	0.5	3/25/2014 12:00:00 AM	2	Ť.
昌州1≓加油站	zhejiang	wenzhou	#95	3.58	13.58	0.5	0.5	3/25/2014 12:00:00 AM	2	İ
揾州三号加油 占	zhejiang	wenzhou	#93	5.7	5.7	0.8	0.8	5/24/2014 12:00:00 AM	2	İ
揾州三号加油 沾	zhejiang	wenzhou	#97	6.58	6.58	0.5	0.5	3/25/2014 12:00:00 AM	20	a
揾州三号加油 占	zhejiang	wenzhou	#95	3.58	3.58	0.5	0.5	3/25/2014 12:00:00 AM	2	Û
合树1 #加油	zhejiang	hangzhou	#93	5.3	5.3	0.8	0.8	5/1/2014 12:00:00 AM	2	Û
6			#07	6.58	6.58	0.5	0.5	3/25/2014 12:00:00	20	Û
5 5 5州1#加油 5	zhejiang	hangzhou	-97							

Station Name	Oil specification	The new price	The new density	
	✓	~		
The effective time				
7/16/2014 00:00:00				
C Same station all C San	ne in the region ^C Same in the city			
O Create				

5.8 Data Version Management

After click the menu bar "Administrator"---"Data Version management", it will displayed the data version manage window, in the window it record the version number of white list, blacklist, gray list and so on. If these data information changed, then the corresponding version number will add 1 automatically, when the Gas Station Management system download the data from the data center, if found the version number is different, it will update the information data for different version number automatically.

BLUE SKY				
	Administrator S	ummary Data Station Service Dat: ta Version Configuration-Edit	a Analysis Card Service	
fuel pump config.	Oil price	Oil specification	Basic black list	
22	91	19	32	
Update Time	Update Time	Update Time	Update Time	
5/16/2014 8:31:00 AM	5/24/2014 2:05:25 PM	5/29/2014 3:24:36 PM	5/31/2014 4:29:17 PM	
new appended black list	New delete blacklist	White list	Grey list	
27	15	120	15	
Update Time	Update Time	Update Time	Update Time	
5/28/2014 8:30:57 PM	5/16/2014 8:31:00 AM	6/3/2014 2:21:04 PM	5/16/2014 8:31:00 AM	
Employee information	Coupons Information			
106	28			
Update Time	Update Time			
5/30/2014 11:38:46 AM	6/3/2014 11:02:49 AM			

5.9 Add the Vendors and Distribution Management

a) After click the menu bar "Administrator"---"Vendors management", it will displayed the data version manage window, in the window you can creat "Vendor". Those information will send to Station, when importing the Oil, we can select the Oil belong to which Vendor.

	Administrator Sur	nmary Data Station Service Data Analysis	Card Service	
		Transport Management		
Create				
Vendor Code	Name	Vendor Category	Edit	Delete
00001	中国石化浙江分公司	Vendor	2	Û
00002	中国石油浙江分公司	Transporter	2	11
00003	活动中心	Vendor	2	î
wing 1 to 3 of 3 entries			<u>First</u> P	revious 1 Next Last

b) Then click the menu bar "Administrator"---"Distribution management", it will displayed the data version manage window, in the window you can creat "Distribution". Those information will send to Station, when importing the Oil, we can select the Oil from which Distribution.

5.10 Inquire of Black, White, Grey List

 a) Klist: It means the card list of report loss; it cannot refuel anymore if the card is in the black list. Query the black list: click the menu bar "Summary Data"----"Blacklist query", input the card number in the "card No.", then click "query".

		Administrator	Summary Data	Station Service	Data Analysis	Card Service	
			Black li	st query			
electing conditions							
iN:	Date From:	7/15/2014	Date To: 7/1	5/2014	Q Query	🖨 Print	
A	SN				Lost time		
			No data avail:	able in table			
ing 0 to 0 of 0 entries							First Previous Next

b) White list: it is gas station internal card list (employee card, maintain card, checking pump card), these gas station internal card just can be used when it in the white list. Query the white list: click the menu bar "data center query"----"white list query", select the gas station, input the card number in the "card No.", and then click



c) Grey list: the grey card means already consumed but the money still not deducted from the card, it should make ungrey deduction before use. Query grey list: click the menu bar "data center query"---"grey list query", input the card number in the "card No.", then click "query".

				Gray List Query				
selectin	g conditions							
SN:		Date From: 7/15/2014	Da	te To: 7/15/2014		ierv 🔺	Print	
					_			
SN	Balance	The amount of the transaction	стс	Charge source	Transaction time	GMAC	PSAMTID	PSAMTTC
			1	No data available in table				
ing 0 to	0 of 0 entries						First Pr	evious Next La

5.11 Data Inquire for Each Gas Station

It can inquire the each gas station's transaction details, tank measuring inquire, tank monitor inquire, daily report inquire, and monthly report inquire in the menu bar " station Service".



5.12 Data Collection Inquire for Each Gas Station

In the menu bar "Retail statistic" it can make each gas station's daily report inquire, monthly report inquire, buy-stock-sell daily and monthly report inquire, oil product daily and monthly report inquire, fuel card daily and monthly report inquire.

5.13 Operation Inquire for Issuing Card Site

- a) Query the group company customer information: click the menu bar "card Service"----The operator can select to inquire all types of
 - IC Card.

			Administrator	Summary Data	Station Service	Data Analysis		
							Prepaid Individual Transaction	
				Ho	me		Query	
Dear adm	in:						Prepaid Individual Information Query	
-		C . C .					Card Service Log	
0	Center management system	em is the database arra	ngement and gathering	center of all gas station	s, to realizes all the fun	ction of configuration,	Group Card Report	syster
0	Technology and service	s					Card Service Logs	
9	for more information ,yo Phone: +86-(577)-88616	u can call our technica 098-8007center	l service center or visi	t our website.			Card Station Daily Report	
	Email: BlueSkycenter@se Website: BlueSkycent	ohu.com er					Customer credic card	
							Group credic card	

 b) Inquire individual customer information: click the menu bar ""card Service" --- "customer info Query" --- "individual customer", this window can inquire the information for the entire individual customer.

			Administrator	Summary Data	Station Service	Data Analysis		
							Prepaid Individual Transaction	
				Ho	ome		Query	
							Prepaid Individual Information	-
Dear admin:							Query	
•		Contra Contra					Card Service Log	
1 we Cer	lcome login in issuing nter management system	Center System m is the database arrat	ngement and gathering c	enter of all gas statior	ns, to realizes all the fun	ction of configuratior	Card Service Log 1. Group Card Report	systen
1 we Cer	lcome login in issuing nter management system chnology and services	g Center System m is the database arran	ngement and gathering c	enter of all gas statior	ns, to realizes all the fun	ction of configuration	Card Service Log 1. Group Card Report Card Service Logs	systen
1 we Cer 2 Ter for Pha	lcome login in issuing nter management syster chnology and services r more information ,you one: +86-(577)-886160	g Center System m is the database arran is can call our technical 98-8007center	ngement and gathering c I service center or visit c	enter of all gas station our website.	ns, to realizes all the fun	ction of configuration	Card Service Log n. Group Card Report Card Service Logs Card Station Daily Report	systen
1 we Cer 2 Ter for Pho Em	lcome login in issuing nter management system chnology and services r more information ,you one: +86-(577)-886160 nail: BlueSkycenter@sol ebsite: BlueSkycenter@sol	g Center System m is the database arran is can call our technical 98-8007center hu.com	ngement and gathering c I service center or visit c	enter of all gas station pur website.	ns, to realizes all the fun	ction of configuration	Card Service Log a, Group Card Report Card Service Logs Card Station Daily Report Customer credic card	systen

 c) Inquire the card operation process: click the menu bar "business inquires of issuing card site"---"Inquire the card operation process" this window can inquire the detail information for all the card operation.

			Administrator	Summary Data	Station Service	Data Analysis		
				Ho	me		Prepaid Individual Transaction Query	
Dear adn	iin:						Query	
-		Conton System					Card Service Log	
	Center management system	n is the database arra	angement and gatherin	g center of all gas station	s, to realizes all the fun	ction of configuration	Group Card Report	system.
0	Technology and services						Card Service Logs	
9	for more information ,you Phone: +86-(577)-886160	can call our technic 8-8007center	al service center or vis	it our website.			Card Station Daily Report	
	Email: BlueSkycenter@sol Website: BlueSkycente	u.com					Customer credic card	
							100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100	

Chapter 6 <u>Issue Card System</u>

6.1 System Registration:

a) LINK TO ISSUE CARD SYSTEM'S WEBSITE. AND USE THE CREATED OPERATOR ACCOUNT AND PASSWORD . CLICK "LOG"

BLUESKYCARDSYSTEM DEUING CARD SYSTEM

6.2 System Management

a) In the website, the operater also can use the card to logo into the

system.

BLUESKYCARDSYSTEM ISSUING OARD SYSTEM



b) Increase operator in issuing card System: click menu bar "Open

Account"----"Useroperator", select operator information form "employee Management", click "Read" then Cleck Ok

tion Attendant's Na	ame	Op	en Account-Us	er Operator	Close Account	Keport	Query	Managemen	
tion Attendant's Na	ame	Op	en Account-Us	er Operator					
tion Attendant's Na	ame								
tion Attendant's Na	ame								
		×							
rd Valid Date									
							a R	Read	п ок
rd	Valid Date	Valid Date	Valid Date	Valid Date	Valid Date	Valid Date	Valid Date	Valid Date ه ۲	Valid Date من المحمد المحم

6.3 Open Account

a) Open account for internal card: internal card include Station Attendant, Maintennace Team, Individual Prepaid. Prepaid group Master, Credit Group card, Credit Group Master, Prepaid Group Card. Insert the employee card which is issued "by build card system" into the IC card charger, click menu bar "open account"----"Employee Account", click "read card" to read the card information into the window, select gas station site, then select the item "employee card", select the employee, and also setup the password if you think it is necessary (if not, the default password is "9999"), then click "ok" to confirm.

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Employee information	Castion Annu dende Norme			
Sile Name	Station Attendant's Name	~		
Card Infos				
Card No.	Card Valid Date	PWD	Password Confirm	

b) And the operation of opening account for maintaining card, is the same method like opening account for employee card. After finish opening account, before use this account. The different between employee card and maintaining card: the Employee card only can use into one station. But the maintaining card can use to all station.

G. iss		system 800-1	24-1246					Hello, <u>Timzheng</u> !	Log Ofi
BLUE SKY	Open Account	Deposit Change	Amendment	Report Loss	Close Account	Report	Querv	Management	
		Open	Account-Maint	tennace Team					
Card Infos Site Name	Station Attendant's 1	Name							
Jeddah Office 💌	Card Valid Date	PWD		Passy	word Confirm				

c) Open account for individual Prepaid card: Insert the user card which is issued "by build card system" into the IC card charger, click menu bar "opening account"----"Individual Prepaid", click "read card" to read the card information into the window, then input the user name, ID number, then select the each card function, click "ok" to confirm then click the "save"



d) Open account for Prepaid group Master: one group manager card is corresponding to one big company. click menu bar "opening account"----"Prepaid group Master", click "read card" to read the card information into the window then input the user name, ID number, then select the each card function, click "ok" to confirm then click the "save". (Mark: for Group Company Master card, only applying one function---"Discount", other fuction will be applying in the Prepaid Group Card.)

WENZHOU BLUESKY ENERGY TECHNOLOGY CO.,LTD ADD: NO.22 JUXIN ROAD, JUGUANG YUAN, WENZHOU ZHEJIANG CHINA

									-			
nfo. of Gr	roup User's											
Card No.*		Card Valid Date*		Account*		PWD						
		1/1/0001 12:00:00 A	M					A Read				
roup Infe	fomations											
Full Name*		Short Name*		NAFT Group A/C(6)*		Certificate No*	Con	tact	Phone			
		Devel		littere		Franki	B		A	Barris		
		Form		Aboress		Zinan	5P		Accounters	5413.		
Read li Jimit Fue	Info. Note: if the to	ser already exists, you can press the "L	Long name" "Sb	hort name" "No." or "Cen	tificate No." to re	ad the group user information	ň.					
Read In Limit Fue Price Apply ¹ 100	Info. Note: if the u el 96	ser already exists, you can press the "L	Long name" "St	hort name" "No." or "Cen	tificate No." to re	ad the group user information	£.					
Read I Limit Fue Price Apply ¹ 100 Limit non	Info. Note: if the u el % Fuel	ser already exists, you can press the "L	long name" "St	bort name" "No." or "Cert	tificate No." to re	ad the group user informati	a.					
Read In Limit Fue Price Apply 1 100 imit non 1	Info. Note: if the u el 56 Fuel andise category	Ser already exists, you can press the "L	Long name" "Si	bort name" "No." or "Cen	rificate No." to re	ad the group user informati	a.					
Read In Limit Fue Price Apply 1 100 imit mon 1 imit mechan Select o	Info. Nee: if the u el el Fuel Fuel sofile category options	aer already exists, yos can press the "L Limit station for non foel Select options	Long name" "Si	hort name" "No." or "Cer	nificate No." to re	ad the group user informati	a.					
Read In Limit Fuel Price Apply 100 Limit non Select of ID	Info. Noe: if the u el fs Fuel audite category pptions Category	ar drady exist, yes can pres the "L Limit states for non-fact "Select options Price Apply %	Long name" "Si e ID	bort name" "No." or "Cer Category	rificate No." to et	as the group user informati	c. D Category	Price Apply &	ID	Category	Price	Apply %
Read In Limit Fue Price Apply 1 100 imit non 1 imit mecha Select o ID	Info. Note: if the u I I I I I I I I I I I I I I I I I I I	Limit satisf, you can press the "L Limit satisfy for one field Select options Frice Apply % 100	Long name" "SI * ID 4	bott name" "No." or "Cer Category K	rtificate No." to re Price.	ad the group user informati	五. D Category 切印转次品	Price Apply %	<u>10</u> 13	Category 3月干	Price 100	Apply 46
Read In Limit Fuel Price Apply 1 100 imit non 1 imit metha Select o ID	http://www.iftheu el +s Fuel audis-category options Category 利益 新力取利	Limit sates for soc feel Limit sates for soc f	• • 10 4 5	hort name" "No." or "Cer Category 水 牛奶	Price. 100 100	Apply 4e 11	 Category 即時沈島 车上用品 	Price Apply 94	10 13 14	Category	Price 100 100	Apply %

e) Open account for Prepaid group Card For Group driver card. click menu bar "opening account"----"Prepaid group Card", click "read card" to read the card information into the window then Select the this card to belong to which Group Company. Then input the user name, ID number, then select the each card function, click "ok" to confirm then click the "save".

			Open Account-Prepaid Driver				
					-		
Group Infomations							
all	×						
Card Infos	and the second second second second second second second second second second second second second second second						
Card No.*	Card Valid Date*	Account	PWD				
				™ Read			
Customer Infomation							
User+	NAFT customer A/C(6)*	ID Type*	ID NO.*	Phone	Vehicle No		
		ID 🗸					
Postal	Address	Email	Job title	Company	Birthday		
						10	
PROMO-1	PROMO-2						
PROMO-1	PROMO-2						
PROMO-1	PROMO-2						
PROMO-1	PROMO-2						
PROMO-1 Read Info. Note: If the u	PROMO-2	e" "No." "ID Type" "ID No." to read user inform	ation.				
PROMO-1 Read Info. Note: If the u	PROMO-2 Per already exists, you can press the "user nam	e" "No." "ID Type" "ID No." to read user inform	atter.				
Read Info. Note: if the u Limit Fuel Limit Car Number	PROMO-2	e" "No." "ID Type" "ID No." to read user inform Limit Volume Each Time (L)	ation.	Limit Amount Per Day(S.R.)	Price Apply %		
Read Info. Note: if the q Limit Fuel Limit Fuel	PROMO-2 Her blesdy stilm, you can presi the "oser nam Limit Fuel Type	* "No." "ID Type" "ID No." to read user inform Limit Volume Each Time (L)	atlen. Limit Saling time per day	Limit Amorati Per Day(S.R.)	Price Apply % 100		
Read Info. Note if the u Limit Fuel Limit Cu Namber	PRONAD-2 PRO	r" "No." "ID Type" "ID No." to read user inform Limit Volume Each Time (L)	stice.	Limit Amount Per Day(S.R.)	Price Apply % 100		
Read Info. Nose if the u Limit Fuel Limit Fuel Limit whome per month(L)	PROMO-2 PROMO-2 Limit Part Type Limit Part Type Limit amount per month(S.R.)	* "No." 1D Type" "ID No." to read user influen Limit Volume Each Time (1) The 100 km fail commension(1)	ation.	Limit Amoust Per Day(S.R.)	Price Apply % 100 Limit Stations		
Road Info. Note: if the U Limit Fuel Limit Fuel Limit volume per month(L)	PEOIAD-2 Limit Part Type Limit Part Type Limit annotic S.P.	r' "No." "ID Type" "ID No." to east user infere Limit Volume Each Turn (L) The 100 km fast consumption(L)	Limit failing time ye day Oil Quota Range 4:	Linit Amout Pr DayS.R.) Linit Type No Limit	Price Apply % 100 Limit Stations Select options	*	
PROMO-1 Read Info. Note: if the s Limit Fuel Limit Fuel Limit votana per mostl(L) Limit non Fuel	PROMO-2 PROMO-2 Inter blendy winn, you can press the "same name Limit Past Type Limit amount per month(S.R.)	*' 'No." 'ID Type' 'ID No." to read user inform Limit Volume Each Tuma (L) The 100 km fail consumption(L)	Limit failing time per day Oil Quora Range %	Limit Amoust Fer Day's R.) Limit Type No Limit	Price Apply %s 100 Limit Stations Select options		
PROMO-1 Read Info. Note: if the U Limit Fuel Limit volume per month(L) Limit volume per month(L) Limit non Fuel Limit non Fuel	PROMO-2 PROMO-2 Institution, you can press the "user name Limit Paul Type Limit amount per month(S.R.) Limit Amount per month(S.R.)	* 'No." 'ID 'Type' 'ID No." to ead user inflere Limit Volume Each Time (L) The 100 km fiel consumption(L) Limit times per day	ation.	Limit Amoust Far Day(S.R.) Limit Type No Limit V	Price Apply % 100 Limit Stations Select options		
PROMO-1 Read Info. Note: If the u Limit Fuel Limit Fuel Limit volume per month(L) Limit non Fuel Limit Amount per dp((S.R.))	PROMO-2 PROMO-2 Limit Post Tayse Limit Post Tayse Limit amount per month(S.R.)	r' "No." "ID Type" "ID No." to easi user infere Limit Votare Bath Tiere (3) The 100 km fait consumption(1) Limit times per day	ation. Limit failing time per day Oit Quon Range % Itent: machanolise category Select: options *	Limit Amount Per Day(S.R.) Limit Type No Limit V Limit ration for non fael Select options *	Pita Apply % 100 Limit Sationa Select options		

 f) Open account for Credit Group Master one group manager card is corresponding to one big company. click menu bar "opening account"----"Credit Group Master", click "read card" to read the card information into the window then write into the "Credit of line"--credit limit amount.. Then input the Company name, ID number, then select the each card function, click "ok" to confirm then click the "save". (Mark Credit customer: the office will give this customer a credit amount (such as 5000usd), and customer do not need deposit money. Then the customer can transfer the money (5000usd) to sub-driver's cards. And the total amount can not exceed than 5000usd. Every month the system will have a report and send to customer. Let the customer pay the bill. (the creidit amount set by Head Office) the credit customer do any change to sub-driver, the driver not need update the card in the station office. and for the credit customer, we need keep the station system on line, otherwise we can not serve them.)

					Open Account-	Credit group Accou	nt					
Credit C	Card Infomation											
Line of cre	dit	Check out Day	A debit	card payment date	Have used amo	ount						
0					0							
Info. of (Group User's											
Card No.*		Card Valid Date*	Account	•	PWD							
		1/1/0001 12:00:00 AI	М				ন Read					
Group In	nfomations											
Full Name	e .	Short Name*	NAFT	Group A/C(d)*	Certificate No*		Contact		Phone			
Fax		Postal	Address		Email		Bank		Account of B	Sanik		
Read	I Info. Note: If the u	ser already exists, you can press the "L	ong name" "Short name"	"No." or "Certificate No."	to read the group user int	bemation.						
Read Limit Fu Price Appl	l Info. Note: If the U sel by %	aer already exists, you can press the "L	ong name" "Short name"	"No." or "Certificate No."	to read the group user inf	bemation.						
Read Limit Fu Price Appl 100	<mark>i Info.</mark> None if the u sel ty %	ser stready exists, you can press the "L	ong name" "Short name	"No." or "Certificate No."	to read the group user int	bernation.						
Read Limit Fu Price Appl 100 limit not	l Info. Nose: If the u sel ty %	aer alfreedy exists, you can press the "L	ong name" "Short name	"No." or "Certificate No."	to read the group user int	bematice.						
Read Limit Fu Price Appl 100 limit not limit merc	t Info. Nos: If the u set y % n Fuel handlise category	aet already exists, you can press the "L Limit station for non fast	ong name" "Short name	"No." or "Certificate No."	to read the group user int	bematice.						
Read Limit Fu Price Appl 100 Limit nor Limit merci Select	tinfo. Note: If the b set ty % n Fuel handlise category options	aer already exists, you can press the "L Limit station for non fast * Select options	ong name' "Short name'	"No." or "Certificate No."	to read the group user int	bernation.						
Read Limit Fu Price Appl 100 limit nor limit merc Select ID	I Info. Nos: if the u set by 56 n Fuel handlis category options Category	ar drady adim, you can press the "L Listic values for one fait * Select options Price Apply %	ong same" "Short name a ID	"No." or "Centifices No." Category P	to read the group user int	tematice.	iegory Pr	ice Apply 48	10	Category	Price Ap	ply eş
Read Limit Fu Price Appl 100 limit nor Select ID 1	1 Info. Nos: If the c rel and the state of the state handle category options Category 我说曲	ar drady adirs, you can peak the "L Limit susion for non fail * Select options Price Apply % 100	ong same" "Short name"	"No." or "Certificus No." Category 7	to read the proop user int	ID Ca 11 ROHDA	ngery Pr B 100	ice Apply 46	10 13	Category 闭干	Price Ap 100	ply to
Read Limit Fu Price Appl 100 limit nord Select ID 1	ti Info. None: if the o nel anel handlise category options 名社委会子 和话语 》添加所有	ar strady action, you can press the "L Limit station for one field * Select options 100 100	eng name' "Short name" 10 4 X 5 4 Sh	The for Centitors Ne.1 Category P 100 100	to read the proop user inf	bmailes. 10 Cc 11 即时次 12 年上用;	Hgery Pr 목 100 목 100	ice Apply 46	10 13 14	Category 闭子 方便面	Price Ap 100 100	ply te
Read	1 Info. None: if the u nel handlise category options Category 利油 添加所 例始分金銀液	Linit vales for os for Elinit vales for os for Select options Price Apply ** 100 100 100	org same* "Short same* 1D 4 5 年約 6 获得能	"No." or "Centifices No." Category 7 100 100 XNA 100	to read the group user left	10 C* 11 即时次 12 车上用。	неоту Рг В 100 В 100	Sice Apply 96	ID 13 14	Category 闭子 方便面	Price Ap 100 100	ply të

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Marks: In New IC card system will add new limit functions:

- a) Monthly value limit
- b) City limit
- c) Odometer limit (we will add the information about "last time odometer" and "last time fueling quantity", it can change in fuel dispenser. When customer build card, it need write into the hundred kilometers per liter. The fuel dispenser will calculate this time hundred kilometers per liter, if it less this setting one, it will allow to fuel, otherwise, it cannot allow to fuel.
- d) Product limit
- e) Monthly volume limit
- f) Every transaction limit(L/S)
- g) Time limit per day
- h) Station limit

6.4 Deposit

a) Deposit for i Station Attendant: Insert the Station Attendant which is issued "by build card system" into the IC card charger, click menu bar "deposit"----"Station Attendant", click "read card" to read the card information into the window, input the deposit

amount, then click "ok" to confirm. [Cash Receipt reference] OK,

It can print the receipt.

JE SKY		system 800-1	24-1246					
	Open Account	Deposit Change	Amendment	Report Loss	Close Account	Report	Query	Management
		D	eposit-Station	Attendant				
eposit-Station Attendant SN	Balance	Amour	t					
								Read 🖪 OK

b) Deposit for Prepaid group Master: Insert the Group manager card which is issued "by build card system" into the IC card charger, click menu bar "Deposit"-----"Prepaid group Master", click "read card" to read the card information into the window, input the deposit amount, then click "ok" to confirm. <u>[after issuing the cards, they will be under the customer control, so we need to do the deposit in two steps, first on account level which should be done by Head office, second on card level which can be done by <u>customer through the WEB application]</u></u>

ELECTRONIC	Onen Assessed	Denosit Chang	Amondmont	Panant Lass Class	Assount Penant	Onem	Management
	Open Account	Deposit Chang	Amendment	Report Loss Close	Account Keport	Anery	management
		1	eposit-Prepaid gr	oup Account			
Deposit-Prepaid group Account							
ASN	Balance	At	nount	Payment		Check No.	
				Cash	*		

c) Prepaid group Master Out: this operation means transfer the amount from the group manager card to his Drivers's card which

the user belong to this company. This Operation can be done by Head office or Group Manager. First insert the manager card with the deposit inside into the IC card charger, click menu bar "deposit"----"manager card transfer", click "read card" to read the manager card information into the window, then pull out the manager card. Then input the underling use card in the item "driver card", input the transfer amount in the item "transaction money", then click "add", then it will display a transfer record for this card(if have many cards need be transferred, the operation is same). If need to change the transfer money for one card, can double click the card's transfer record, then modify the amount in the item "transaction money", then click "change". After input all the underling user card information, click "manager card transfer out", then insert the user card into the card charger, click "read card for transfer in", click "user card transfer in", then click "ok" to confirm. So the deposit transfer for user card is finished. [ONCE THE TRANSFER BE DONE, THE STATION CAN DOWNLOAD THE INFORMATION, SO THE DRIVER CAN UPDATA THE CARD IN THE STATION OFFICE]

BLUE SKY									
	Open Account	Deposit	Change	Amendment	Report Loss	Close Account	Report	Query	Management
			Depos	it Prepaid Gr	oup Card Out				
Info. of Group User's								-/	
ASN	Full Name		Balance						
			0			ন Read			
Info. of Transfer									
ASN	User Vehicle N	o Amou	nt						
				No data available	in table				
howing 0 to 0 of 0 entries									First Previous Next

 d) Deposit for Individual Prepaid: insert the user card into the card charger, click menu bar "deposit"----"Individual Prepaid", click "read card" to read the card information into the window, input the deposit amount, click "ok" to confirm.

BLUE SKY	suing and system 800-124-1246					Hello, <u>admini</u>) Log On	
ELECTRONIC	Open Account	Deposit Change Amendment	Report Loss Close Acco	unt Report	Query Ma	nagement	
		Deposit-Prepaid	l customer				
Deposit-Prepaid customer							
ASN	Balance	Amount	Payment		Check No.		
			Cash	~			
					-		

e) Deposit Credit Group Master Repayment: every month we will send the credit company monthly bill, they need pay this amount by cash or transfer. Once the balance is received, we need do this repayment to clear that month bill and allow them to use the card at the next month.

		Open Accou	nt Deposit	Change Amendment	Report Loss	Close Account Rei	ort Ouery Ma	nagement
				Deposit Credit Group	Master repayment			
selecting	conditions							
User		NAFT Group A/C:		ASN	Cle	osing Status : Not chec	kout 👻 🔊 Rea	d
							QQuery	
ASN	Date From	Date To	Due	The date of repayment	Repayment	Payment	Closing Status	Memo
				No data availabi	e in table			

f) Charge the deficit for user card: when deposit with wrong deposit, you can use this function to take back the wrong amount. Insert the card with wrong amount into the card charger, click "deposit"----"Prepaid customer Unload", click "read card" to read the card information into the window, input the deficit amount, then click "enter" to confirm.



6.5 Modify the Information

a) Modify the information for user card: Insert the user card which is issued "by build card system" into the IC card charger, click menu bar "Change"----"Individual Prepaid", click "read card" to read the card information into the window, after modify the information, click "ok" to confirm.[Remote update should be available] OK

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			Change Personal Card		
Old Card Infomations					
Card No.*	Card Valid Date*	Account*	PWD		
		admin	•••••		
Customer Infomation					
User*	User ID*	ID Type*	ID NO.*	Phone*	Vehicle No
		ID	¥		
Postal	Address*	Email			
Limit oil					
Limit Car Number	Limit Times Per Day	Limit volume per month	Limit Oil Type	Limit Amount Per Day	Limit amount per month
Limit Quantity (L)	Preferencial Price	Discount	The 100 km fuel consumption	Oil Quota Range	Limit Type
					No Limit Y
Limit Stations					
Select options	÷.				
Limit in store					
Limit Amount per day	Limit times per day	Limit Amount per month	Limit Category	Limit station In Sotre	
			Select options	* Select options	
New Card Infomations					
New Card ASN	New Card Valid Date				

b) Modify the information for group manager card: Insert the manager card which is issued "by build card system" into the IC card charger, click menu bar "Change"----"Change manager card.", click "read card" to read the card information into the window, after modify the information, click "ok" to confirm.

			Change Manager Card			
Old Card Infomations						
Card No.*	Card Valid Date*	Account*	PWD			
		admin				
Group Infomations						
Long Name*	Short Name*	User ID*	Certificate No*	Contact*	Phone*	
Fax	Postal"	Address*	Email	Bank"	Account of Bank*	
Limit oil						
Limit Car Number	Limit Oil Type	Limit Quantity (L)	Limit Times Per Day	Limit Amount Per Day	Preferential Price	
Discount	Limit volume per month	Limit amount per month	The 100 km fael consumption	Oil Quota Range	Limit Type	
					No Limit	<u>~</u>
Limit Stations						
Select options						
Limit in store						
Limit Amount per day	Limit Amount per month	Limit times per day	Limit Category	Limit station In Sotre		
			Select options	Select options	0	
New Card Infomations						
New Card ASN	New Card Valid Date					

c) Modify the information for Credit Group Master: Insert the manager card which is issued "by build card system" into the IC card charger, click menu bar "Change"----"Change manager Credit.", click "read card" to read the card information into the

			Change Manager Credit			
Credit Card Infomation						
Line of credit	Check out Day	A debit card payment date	Have used amount			
Old Card Informations						
Card No.*	Card Valid Date*	Account*	PWD			
		admin				
Group Infomations						
Long Name*	Short Name*	User ID*	Certificate No*	Contset*	Phone*	
Fax	Postal*	Address*	Email	Bank*	Account of Bank+	
Limit oil Limit Car Nombar	Limit Oil Tuna	Limit Opposity (T.)	Limit Times Der Dev	Limit à mount Dar Day	Dratemental Drina	
				1		
Discount	Limit volume per month	Limit amount per month	The 100 km fuel consumption	Oil Quota Range	Limit Type	
					No Limit 🞽	
Limit Stations						
Select options						
Limit in store Limit Amount per day	Limit Amount per month	Limit times per day	Limit Category	Limit station In Sotre		
and a second part of y	Anne in the second	anni mino pa ong	Select options	Select options	0	
			,			
New Card Infomations						
New Card ASN	New Card Valid Date					

window, after modify the information, click "ok" to confirm.

d) Modify the information for Credit Group card: Insert the manager card which is issued "by build card system" into the IC card charger, click menu bar "Change"----"Pesonal Credit.", click "read card" to read the card information into the window, after modify the information, click "ok" to confirm.

ard No.*	Card Valid Date*	Account*	PWD			
		admin	•••••			
Customer Infomation						
laer+	User ID*	ID Type*	ID NO.*	Phone*	Vehicle No	
		ID	×			
lostal	Address*	Email				
imit oil						
imit Car Number	Limit Times Per Day	Limit volume per month	Limit Oil Type	Limit Amount Per Day	Limit amount per month	
imit Quantity (L)	Preferential Price	Discount	The 100 km fael consumption	Oil Quota Range	Limit Type	
					No Limit 💌	
imit Stations						
Select options						
imit in store						
imit Amount per day	Limit times per day	Limit Amount per month	Limit Category	Limit station In Sotre		
			Select options	Select options	•	
ew Card Infomations						
iew Card ASN	New Card Valid Date					

6.6 Un-grey When Online:

Un-grey when online: it means the grey card can be ungrey in the issuing card system when online, and then it will be useful again. The grey card is bringing out by many suddenness statuses, like in fueling process, the card is taken out. Click "read card" to read the grey card information into the window, then click "ok". (remark: the ungrey process just can be down after this grey record be upload to the data center and been accounted by center accounting system). [Grey and ungrey concept is on group account level and to affect all card belong to the same group account].

6.7 Report Loss for Card Password

Report loss for card password: insert the card which the password is forgotten into the IC card charger, click menu bar "info. Amendment"----"lost password", click "read card" to read the card information into the window, then click "ok".

		Lost Passwo	ord	
Card Infos ASN	Card Valid Date	User	Account	ID Type
Address	ID NO.	Phone	Postal	
Lost Password Fee	Payment	New Password	Password Confirm	
	Cach			

6.8 Card Report Loss

- a) After the operation "Card report loss", in gas station management system, need click "download data center" to update the information. [REALTECH WILL SET THE STATION DOWNLOAD THE INFORMATION FROM Head office AUTOMATIC, THIS INFORMATION ALSO WILL BE DOWNLOAD]
- b) Report loss for user card: click menu bar "report loss"----"personal card", select the ID type, input the certificate number, click "query card", select the card number for reporting loss, then click "report loss".

		Personal C	ard	
Query				
ID Type	ID NO.	User ID	To query the user name	
ID	~			Query
User	ASN	Payment	Fee	Account
User	ASN	Payment Cash	V 0	Account
User Balance of Account	ASN	Payment Cash Account site	Fee 0	Account
User Balance of Account 0	ASN Time of Create Card 1900-01-01	Payment Cash Account site	ree ♥ 0	Account
User Balance of Account 0	ASN Time of Create Card 1900-01-01	Payment Cash Account site	Fee 0	Account

Report loss for manager card: click menu bar "report loss"----"manager card", select the company short name, input the company license number, click "query card", select the card number for reporting loss, then click "report loss".

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		Manager Care	1	
Query				
To query the user name	Short Name	No.	Certificate No	
				Query
ease enter "User name", "Short na	me","No." or "Certificate No ", then	click "Query" button to query the manager card	information.	
ease enter "User name", "Short na Manager Card	me","No." or "Certificate No ", then	click "Query" button to query the manager card	information.	
ease enter "User name", "Short na <mark>Manager Card</mark> Long Name	me", "No." or "Certificate No ", then Lost card No.	click "Query" button to query the manager card Fee	information. Payment	Account
ease enter "User name", "Short na Manager Card Long Name	me","No." or "Certificate No ", then Lost card No.	click "Query" button to query the manager card Fee	Payment	Account
ease enter "User name", "Short na Manager Card Long Name Balance	me", "No." or "Certificate No ", then Lost card No. Account site	click "Query" button to query the manager card Fee 0 Time of Create Card	Payment Cash	Account

c) Report loss for Station Attendant: click menu bar "report loss"----"employee card", select the gas station, select the internal card type, select the employee name, select certificate type, input the certificate number, click "query card ", select the card number for reporting loss, then click "report loss".

		S	ystem					
				Employe	e Card			
Employee Card Station Name	¥	Employee's Name	~	Card No.	~			
ID Type	*	ID NO.		Card Valid Date		Account site		
								Account Loss

d) Report loss for Maintaining Card : click menu bar "report loss"----"Other Card", select the gas station, select the internal card type, select the employee name, select certificate type, input the certificate number, click "query card ", select the card number for reporting loss, then click "report loss".

	Others C	ard Loss		
Station Name	Card No.			
	~	~		
count site				
				a loss of the second se
				Account Lo
5	tation Name	tation Name Card No.	tation Name Card No.	tation Name Card No.

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6.9 Reissue/Change Card

- a) When lose card or the card is damaged, need make operation "reissue/change card". Before this operation, in gas station management system should click "upload data center" and should make accounting in center accounting system . If the former card lose or cannot be read, then should report loss before reissue/change card.
- b) Reissue/change user card: insert the card which is issued by "build card system" into IC card charger, click menu bar "change card"----"change personal card", input former card number, click "read card", click "ok" to confirm.

		Change Personal Ca	ard	
Old Card Infomations				
Card No.*	Card Valid Date*	Account*	PWD	
		admin	•••••	
Customer Infomation				
User*	User ID*	ID Type*	ID NO.*	Phone*
		ID		
Vehicle No	Postal	Address*	Email	
Limit oil Limit Car Number	Limit Times Per Day	Limit volume per month	Limit Oil Type	Limit Amount Per Day
			~	
Limit amount per month	Limit Quantity (L)	Preferential Price	Discount	The 100 km fuel consumption
Oil Quota Range	Limit Type	Limit Stations		
	No Limit 🗸	Select options	÷	
Limit in store				
Limit Amount per day	Limit times per day	Limit Amount per month	Limit Category	Limit station In Sotre
			Select options	* Select options *
New Card Infomations				
New Card ASN	New Card Valid Date			

c) Reissue/change manager card: insert the card which is issued by "build card system" into IC card charger, click menu bar "change card"----"change manager card", input former card number, click "read card", click "ok" to confirm.

		Change Manager (Card	
Old Card Infomations				-
Card No.*	Card Valid Date*	Account*	PWD	
		admin	•••••	
Group Infomations				
Long Name*	Short Name*	User ID*	Certificate No®	Contact*
Phone®	Fax	Postal*	Address*	Email
Bank*	Account of Bank*			
Limit oil				
Limit Car Number	Limit Oil Type	Limit Quantity (L)	Limit Times Per Day	Limit Amount Per Day
Preferential Price	Discount	Limit volume per month	Limit amount per month	The 100 km fuel consumption
Oil Quota Range	Limit Type	Limit Stations		

6.10 Close Account

Close account for user card: click menu bar "close account"----"personal card". Select ID type, input certificate number, click "query card", select user card number, click "clear account". To close and delete the account.

Query				
ID Type	ID NO.	User ID	To query the user name	
ID	×			Query
i ersonar caru				
User	ASN	Payment	Fee	Account
User	ASN	Payment Cash	Fee 0	Account
User Balance of Account	ASN	Payment Cash Account site	Fee 0	Account
User Balance of Account 0	ASN Time of Create Card 1900-01-01	Payment Cash Account site	Fee 0	Account

6.11 Statistical Query

a) Details inquire: click "query"----"All Details", click "Query".

			Open Account De System	posit Change Info. A	mendment Report	t Loss Close Account	Report Query
				All Details			
Filter Date From		Date To	Region	1	City	Station Na	me
7/15/2014		7/15/2014	all	*	all	✓ all	~
Fransaction Type CN		Card Type					
all	*	all	<u>۲</u> ۹	Query 🗸 🚔 Print			
ASN	Datetime		Transaction Type CN	Amo	ount	Station Name	Operator
				No data available in table			

b) Accounts inquire, deposit inquires, and consumer inquires for user

		Open Account Deposit Chang	e Info. Amendment Report Los	s Close Acc	count Report Outer	
	2	System			All Details	
					Personal Account	
		Personal A	ccount		Personal Deposit	
Porcount Account					Personal Consume	
Card No.	Balance	User	Balance of Account	Curr	Personal Transfer	
	0		0		Manager Account	
Canfine of Cand	ID Trees	A	ID NO.	Dise	Manager Deposit	
contine of card	ID Type	Account	ID NO.	FIIO	Manager Transfer	
					Accounted bill query	
Postal	Address				Not accounted query	
					Query System Logs	
					Employees card overy	

c) Accounts inquire, deposit inquires, and consumer inquires for



manager card.

card.

6.12 Report Forms

- a) If want to inquire the up-to-date report forms data, need click
 "upload data center" in gas station management system, then make accounting in center accounting system.
- b) Business daily report: click menu bar "report"----"Daily Sales", click "query".

			System						
				Daily Sale	25				
Filter									
Date From		Date To		Region		City		Station Name	
7/15/2014		7/15/2014		all	~	all	~	all	~
QQuery	a Print								
Report Daily									
🖨 Print									
Station No.	ASN	Account Datetime	1	Transaction Type CN	Amoun	r Payme	nt Check	No. Fee	Operator
				No data available in	table				
owing 0 to 0 of 0 entri	es							First	Previous Next Last
Total of Cash	Tota	al of Fee T	otal of Check	Total others	To	tal of Transfer	Tet	al for Load of Emp	loyee Card
0.00 \$	0.00 \$	0.00 \$		0 \$	0.00 \$		0.00 \$		
Record of unload or	account close.								
Station No.	ASM	Accou	nt Datetime	Amount	Pay	ment	Check No.	Fee	Operator
				No data available in	table	a a cara a cara da cara			2010 ASS
owing 0 to 0 of 0 entri	es							First	Previous Next Last
Total of Unio	ıd	Total of Clos	ed Account	Total of	Output	To	tal of Income	Tota	of Hand IN
00.5		2 00 0		0.00 \$		2 00 0		0.00.5	

c) Individual user statement: click menu bar "report form"----"individual user statement", input the card number, click "inquire".

			Personal Accoun	Stated			
Filter							
User	User ID		ASN	Date From		Date To	
				▼ 7/15/2014		7/15/2014	
(I a second second second second second second second second second second second second second second second							
Query ASN	ন Read Q.Que	ry 🛔 Print					
Query ASN	ন Read QQue	ry 🗸 Print					
Query ASN Query ASN" means	Read Que	ry 📇 Print					
Query ASN Query ASN" means Personal Account	Read QQue	ry 🌲 Print ser code					
Query ASN Query ASN" means Personal Account User	Read QQue query all ASN by the username or to t Stated Transaction Type CN	ry Print ser code Datetime	Amount	Balance of Account	St	ation Name	Operator
Query ASN Query ASN" means Personal Accoun User	Read QQue query all ASN by the username or to t Stated Transaction Type CN	y A Print ser code Datetime	Amount No data available in	Balance of Account able	St	ation Name	Operator
Query ASN Query ASN' means Personal Accoun User	Read QQue query all ASN by the username or u t Stated Transaction Type CN entries	y & Print ser code Datetime	Amount No data available in	Balance of Account able	St	ation Name First	Operator Previous Next Last
Query ASN Query ASN' means Personal Account User Showing 0 to 0 of 0 Total of 1	Read Que query all ASN by the username or t tated Transaction Type CN entries	y A Print ser code Datetime	Amount No data available in Total of Unload	Balance of Account able Total of Transfer	St	ation Name First Balance (Operator Previous Next Last of Account

d) Group manager statement: click menu bar "report forms"----"group

manager statement", input the card number, click "inquire"

			Manager Acc	ount Stated			
Filter							
User	User ID	ASN			Date From	Date To	
					7/15/2014	7/15/2014	
	Query						
uery ASN" means query all	ASN by the username or user cod	e					
Print	p card						
Short Name	Transaction Type CN	Datetime	Amoun	it	Balance of Account	Station Name	Operator
			No data availab	ole in table			
lowing 0 to 0 of 0 entries						<u>First</u> P	revious <u>Next</u> La
Total o	of Load	To	tal of Transfer			Balance of Account	
0.00 \$	(0.00 \$			0.00 \$		
Bill infomations for drive	er card						
Print							
ASN User	Vehicle No Tran	saction Type CN	Datetime	Amount	Balance of Account	Station Name	Operator
			No data availab	ole in table			
towing 0 to 0 of 0 entries						<u>First</u> P	revious Next La
Total of Load	Total for balar	ace of driver card.	To	otal of Unload	Total of Transf	er Total o	f Consume
	0.00.0		0.00.0		0.00.0	0.00.0	

Chapter 7 <u>Gas Station Management System</u>

7.1 System registration

- a) Double-click "gas station management system", user name "admin", and initial password "123456", click "login in".
- b) Click menu bar "system management"----"registration", input
 16-digit registration code in the item "registration code". Then
 Click "download center data" in toolbar.

UserName Manager	-
Password	

7.2 Station Configuration

- a) Please re-startup the gas station management system after finished all configuration.
- b) The basic information configuration for gas station: click menu bar "system Configuration" "station options", "a. b.c" in "area code" and "city code", input 000, and input 000000 in "station code", Input gas station name, address and the name of station

manager. [000 for city and 000000 for station code, mean 3 digits and 5 digits]

Station Options			2
General DC Communi	cation Parameters		
Station Basic Informat	ion		
Province Code	00	Supervisor Code	00000000
City Code	00	Station Code	00001001
Station Name Address	Lantianstation		
I Auto-Tank № Manager 1	leasure	Daily Check Time 🔽	0:00:00 ÷
	√ OK(<u>O</u>)	Cance	el(X)

c) Tank monitor configuration: if without tank monitor, skip this operation. Click menu bar "system Configuration"—"tank monitor configuration", click "add", input tank monitor port number, select "tank monitor type", click "ok" to confirm.

an	nk Monitor Cor	nfiguration(<u>M</u>	0					
Τ	ATG Code	Port Id	ATG Type	Volume Calc Flag	Baudrate	Parity	Stop Bit	Data Bit
·	1	50	VRTLS-50	1	9600	0	1	8

d) Tank configuration: click menu bar "system Configuration"—"tank configuration", click "add", click "grade name", select oil product, input the data like tank height, volume, high oil level, low oil level, high water level, oil spill, low temperature ,input the number of tank monitor and the number of probe. (Mark: Tank ID 00)

_	ration①		na ana ana ana ana ana ana ana ana ana	1		90.00 NO 70					
ank Code	Grade Name	Height	Volume	per Oil Lim	ər Oil Lim	⁻ Water L	iverflow Lii	Temp L	TG Cod	FG Nam	
1	93# Gasoline	3000	3000	2700	200	100	2800	14	1	1	
2	93# Gasoline	3000	3000	0	0	0	0	0	1	1	
3	93# Gasoline	3000	3000	0	0	0	0	0	1	1	

e) Tank volume table configuration: if without tank monitor, please skip this operation. Click menu bar "system Configuration"—" tank volume table configuration", click "import data", select tank number, click "import", select the document of volume table, click "open", after operation, click "save", you can also setup the document of volume table manually through the button of "add", "delete" and "rebuild".

Tank 1	<u> </u>	Height	Volume	(A)bba
Brand 90#	Gas			
Height	3000 mm			
Volume	3000 Litre			Reset(R)
				Import(I)
				✓ Save(<u>S</u>)
				Close(C

configuration: click f) Pump bar "system menu Configuration"----"equipment configuration", click "Port Configuration", click "add", input the port number which serial port is 1(according the beginning port of MOXA card), then click "add" to add the corresponding serial port number according to the Click "pump setup", click "add" to add nozzle number. corresponding nozzle number according the nozzle number. At last modify the tank number that connect with every nozzle according the actually connection status. Click "confirm" after to modification.

1	Davk Id	Revelue to	Data Dit	Chan Dit	Davila		
1	Port Id	Daudrate	Data bit	SCOP BIC	Parity		1
2	2	9600	8	1	0		
3	3	9600	8	1	0		
4	4	9600	8	1	0		
5	5	9600	8	1	0		
6	6	9600	8	1	0		
7	7	9600	8	1	0		
8	8	9600	8	1	0		
	ă	Add(A)	9	Delete(D)		✔ ок(<u>о</u>)	Cancel(X)
quipmen rt Configura	t Configura ation(P) Pump	tion p Configuratior	n(E)				
quipmen rt Configura Pump Code	t Configura ation(P) Pum Port Code	tion p Configuration Tank Code	n(E) Bra	nd			
quipmen rt Configura Pump Code 1	t Configura ation(P) Pump Port Code 1	tion p Configuration Tank Code 1	n(E) Bra 90#	nd			
quipmen rt Configura Pump Code 1 2	t Configura ation(P) Pump Port Code 1 2	tion p Configuration Tank Code 1 1	n(E) Bra 90# 90#	nd Gas Gas			
quipmen rt Configura Pump Code 1 2 3	t Configura ation(P) Pump Port Code 1 2 3	tion p Configuration Tank Code 1 1 1	n(E) Bra 90# 90# 90#	nd Gas Gas Gas			
quipmen t Configura Pump Code 1 2 3 4	t Configura ation(P) Pum Port Code 1 2 3 4	tion p Configuration Tank Code 1 1 1 1	n(E) Bra 90# 90# 90#	nd Gas Gas Gas Gas			
guipmen rt Configura Pump Code 1 2 3 4 5	t Configura ation(P) Pum, Port Code 1 2 3 4 5	tion p Configuration Tank Code 1 1 1 1 3	n(E) Bra 90# 90# 90# 90# 95#	nd Gas Gas Gas Gas Gas Gas			
guipmen rt Configur Pump Code 1 2 3 4 5 6	t Configura ation(P) Pum Port Code 1 2 3 4 5 6	tion p Configuration Tank Code 1 1 1 1 3 3 3	n(E) Bra 90# 90# 90# 90# 95# 95#	nd Gas Gas Gas Gas Gas Gas Gas Gas Gas Gas			
quipmen rt Configur Pump Code 1 2 3 4 5 5 6 7	t Configura ation(P) Pum Port Code 1 2 3 4 5 6 7 7	tion Configuration Tank Code 1 1 1 3 3 3 3 2	n(E) Bra 90# 90# 90# 95# 95# 95#	nd Gas Gas Gas Gas Gas Gas Gas Gas Gas Gas			
Equipmen ort Configur Pump Code 1 2 3 4 5 6 7	t Configura ation(P) Pum Port Code 1 2 3 4 5 6 7	tion Configuration Tank Code 1 1 1 1 3 3 3	n(E) Bra 90# 90# 90# 90# 95# 95#	nd Gas Gas Gas Gas Gas Gas Gas			

7.3 Operator Management

a) Operator management: click "system Configuration"—"System Operator Management" of menu, select the operator in left side, click "→" to move it to right side, click "position", then, input the number what you want (1-station manager, 2-cashier, 3-operator), click "ok". The initial password is 123456, please modify it in password management menu after logging in.

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	hation List		Sy	/stem Operato	or List			
ployee Co	Name	~		nployee Co	Name	Title	Title Name	1
1 blu	uesky1		Þ	1	Zhangsan	1	Manager	
2 blu	Jesky2			2	Lisi	2	Cashier	
3 blu	Jesky3		_ [3	Zhang	3	Operator	

 b) Logging password management: click menu bar "system Configuration"—"Change Operator Password", input old password, then input new password twice, click "ok".

	User Name Manager 💽
P	Old Password
	New Password
1	Confirm Password

7.4 Shift Management

a) Click menu bar "system Configuration"—"shift Configuration", click "add" to add the shift time according what you want, input the begin and finish schedule, this do not influent the system, just make a note, after setup, click "save". (Mark: Replacing the

totalizer board – in case of damage - during the shift has to be considered as separate transaction on the site server by maintenance staff including Station, Nozzle, Date, time, shift, old board reading and new board reading, while the shift closing such transaction has to be considered while calculating the nozzle shift sales.)

Shift	Shift Name	Start Time		
1	1 Shift	08:00:00		A)bba 🕅
3	3 Shift	00:00:00		
				Pelete(
			<u></u>	
				🧹 🖌 Save(S

7.5 Stock Management

a) Begin loading oil: when it begin loading oil to tank, click menu bar
 "Inventory Management-----"Start Import Oil", select the tank that need imported ,then click "import".

Tank	Oil Height	Oil Volume)il Temperatur	Water Height	Water Volume	
1	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	

 b) Finish loading: when loading is over, click menu bar "storage management"----Finish Importing", select corresponding tank, then click "Finish Importing".

Tank	Oil Height	Oil Volume	Oil Temperature	Water Height	Water Volume	
	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	

c) Importing Confirmation: click menu bar "Inventory Management"—"Import oil Check", there are importing record in the confirmation window. After confirm, select importing shift and measuring person, click "confirm". Select the tank already finish importing, click "finish importing". The system can also support importing manually, click "manual importing", click "information", fill in all data in the information window, click "save" and "return", then "confirm", this importing process is finished manually.

- d) Tank Measure: click menu bar "Inventory Management"—"Tank Measure", select measure shift and person, click "Update", then click "record". [THIS FUNCTION IS FOR THOSE WITHOUT TANK SYSTEM STATION]
- e) The stock calculation way
 - i. Based on the last shift closing balance the system will calculate the stock variance per tank as following:
 - Stock variance = tank dipping balance tank book balance
 - Tank book balance = last shift balance + receiving quantity
 (form tank system) total sales of all nozzles linked to
 that tank.
 - ii. Both actual and book balance should not exceed full capacity of the tank.
- f) Warning function: when tank has leakage, high water level, low oil stock, it can send the message or email to someone.

7.6 Communication With Data Center

a) Download center data: click menu bar "DC Data
 Exchange"—"Download from Data Center", and then the gas

station management system will download the information such as employee information, price information and blacklist information from the data center. It's Automatic upload and download.

b) Upload to data center: click menu bar "DC Data Exchange"—"upload to Data Center", the station will upload the data such as transaction record, daily report, monthly report to the data center management system. It's Automatic upload and download.

7.7 Fueling Management

- a) Make shift and check-out: when handing over to next shift, click menu bar "Delivery Management"—"shift check", check the "check-out" screen if nozzle data and amount is correct, then select current shift , click "make shift and check out" it will display the shift report, then click the printer icon to print it.
- b) Gas station daily check out: the daily check out is made from shift check out, it will bring daily report after daily check out. Click "check out" and "confirm", after checking out. You can read and print the daily report.
- c) Gas station monthly check out: the monthly check out is made from daily check out; it will bring monthly report after monthly check out. Click "check out" and "confirm", after checking out. You can read and print the monthly report.

7.8 Data Query

- a) Transaction flow query: click menu bar "Delivery Management"----"Query Transaction Details".
- b) Group transaction flow query: click menu bar "Delivery Management"—"Query User Transaction Detail".
- c) Shift information query: click menu bar "Delivery Management"----"Query shift check".
- d) Oil product price query: click menu bar"data query"—"Query oil Unit Price".
- e) Employee information query: click menu bar "data query"—"query employee information".
- f) Importing query: click menu bar "data query"—"Query Import Oil Detail".
- g) Tank measuring data query: click menu bar "data query"—"Query Tank Measure Information".
- h) Tank alarm query: click menu bar "data query"—"Query Tank Alarm Information".
- i) Shift report query: click menu bar "data query"—"query shift report".
- j) Monthly report query: click menu bar "data query"—"query monthly report", click "print", you can read and print the report.

k) Note: Please click menu bar "download center data" and "upload data to center" in every day's making shift and checking-out.

7.9 Customer Payment Model:

In new system, we will increase the scanner on the fuel dispenser and office. So the system will accept the payment by scanner:

- Customer IC card
- Cash
- Credit Card
- Advanced paid coupon (option)
- Main PO (option)
- Sub PO (option)
- Credit coupon (option)

The method of application:

- Customer pay by cash, the employee inserts the employee card and service.
- If pay by main PO 、 Sub PO 、 advanced paid coupon or credit coupon, the employee insert the employee card, service and press the "enter" on keypad, and select the payment in keypad, then scan the ticket.