

**Oracle® Retail Fuel Station Outdoor Payment
Terminal Server**
Installation Guide for Wayne
Release 2.06

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Introduction

This document details the installation and setup of the OPT hardware and software for use with the Gilbarco M3 installed in a Wayne housing.

Note: The rebranding for the latest version of this documentation set is in development as part of post MICROS acquisition activities. References to former MICROS product names may exist throughout this existing documentation set.

OPT Server Installation and Configuration

Prerequisites

Complete the following prior to commencing installation of the OPT system:

1. Identify a free POS User ID within Prism – this will be for the OPT.
2. Identify an IP Address for each of the following:
 - OPT Server
 - Each OPT
 - Digi Boards
3. Confirm none of the IP Addresses are in use on the network.
4. Note the store ID in site parameters

Install OPT Server PC

1. Install OPT Server PC.
2. Configure network for the OPT server.
3. Test communication to all devices including the Site Controller/DOMS, Prism PC, and tills.

Software required

The OPT server image contains all the relevant files and folders for the installation and configuration of the OPT.

1. Copy OPTServer directory supplied to the root of the C drive, this will include all of the following Directories\files.
 - a. ACK Install Directory (ATS) software version P38
 - b. Libraries Directory
 - c. Run Directory
 - d. Spot Directory
 - e. Update Directory
 - f. Fuel Card Range XML file
 - g. Base Import file
 - h. Base config.xml file
 - i. Base Lucas2Prism.xml file
2. Iridium 2 BOS software Version 125F.

Configure Site Details for OPT

1. Open *Config_IPT.xml* located in c:\install\lucas\lu_2_8_1*\disk1\InstData in a text editor.
 - a. Change CustomerNumber to a unique number for the customer.
 - b. Change RetailStoreNumber to store number noted in Prism.
 - c. If more OPT/IPT's to be installed copy the relevant sections.
 - d. Amend workstation ID as appropriate.
2. Copy and rename *Config_IPT.xml* to *Config.xml* in the same folder.

Run Lucas BO Installer (Install SOE)

1. Go to c:\install\lucas\lu_2_8_1*\disk1\InstData\windows\novm.
2. Run **Install.exe**.
3. Click **Next** until customising screen appears.
4. Select customising file and choose:
 - a. lct_default for £
 - b. lct_euro for
5. Click **Next** and finish for the remaining screens.

Configure OPT Server

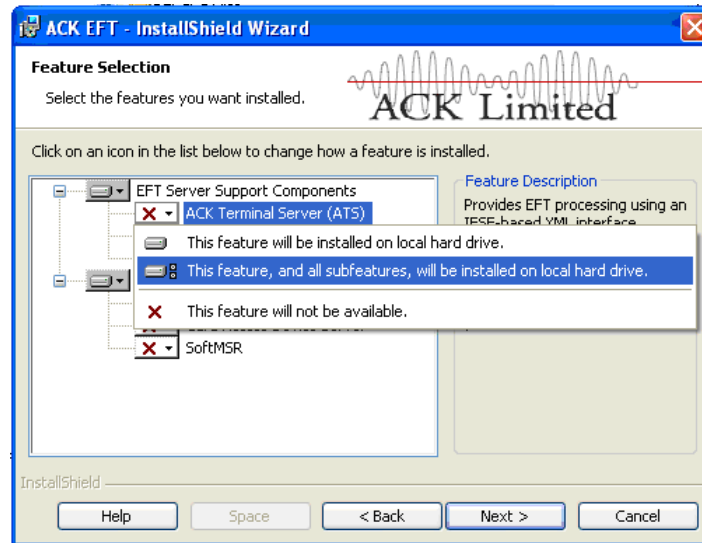
1. Navigate to c:\install\OPTServer.
2. Open *import01.xml*.
3. Amend EMPLOYEE to POS User ID set-up in Prism.
4. Amend EMPID to POS User ID set-up in Prism.


```
<EMPLOYEE>
  <EMID V="22" />
  <ACT V="A" />
  <NAM V="OPT" />
</EMPLOYEE>
```
5. Amend OPERATOR to POS User ID (default is 22).


```
<OPERATOR>
  <OPID V="22" />
  <ACT V="A" />
  <EMID V="22" />
  <LOG V="22" />
  <PAS V="22" />
  <LID V="9" />
  <WGID V="4" />
</OPERATOR>
```
6. Amend Fuel Mappings as per the store and VAT rate
7. Save the changes.
8. Copy *import01.xml* into c:\programme\logware\lucas\arts\import.

Installing ACK (ATS) Software

1. Navigate to c:\install\optserver\ack_opt
2. Run the setup_090901p38 install file – or latest version of ACK installer.
3. When selecting the Features Selection choose the ACK Terminal Server and the Instant Submission Service ensuring that you select **This feature and all subfeatures, will be installed on the local hard drive.** On both sections. As shown in the [ACK EFT – Installation Wizard](#) screen.



ACK EFT – Installation Wizard

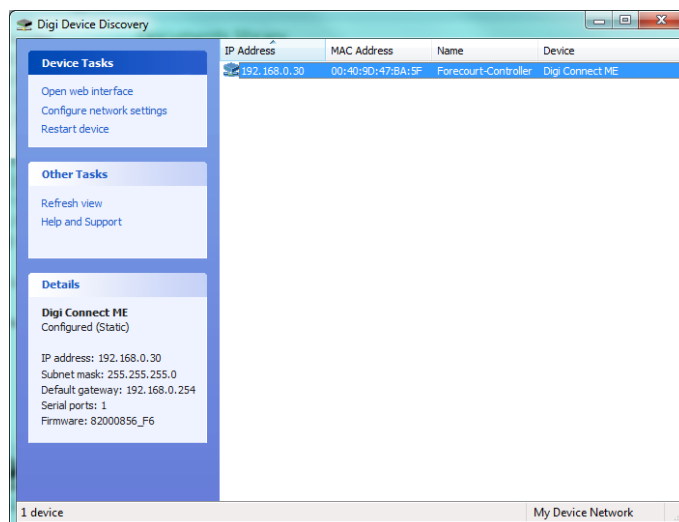
4. Copy the ACKLTD.XML file issued by the build team to C:\Documents and Settings\All Users\Application Data\ACK\EFT.
5. Run services.msc from **Start>Run**.
6. Stop the ACK EFT Terminal Services.
7. Start the ACK EFT Terminal Services.

Installing the OPT Server Software:

1. Navigate to C:\OPTServer\Run\Wrapper.
2. Run the **Install.bat**.
3. Press **Enter** on DOS Screen.
4. Navigate to C:\OPTServer\CommsBoard.
5. Run the **Install.cmd**.
6. Press **Enter** on DOS Screen.

This will install the OPT Server software and set it up as a service.

7. Check the ACK, IPCONTROL, OPTSERVER service has been set-up.
8. Navigate to c:\OPTServer\commsboard\digi and double-click.
9. OPT Digi Screen should appear. For more details, see [Digi Device Discovery](#).
10. If IP change is required, change IP and **Save**.



Digi Device Discovery

IP Control Properties:

The ipcontrol.properties file contains the settings for each main IPT units DIGI Board , see below for the standard settings for NRA units.

1. Navigate to c:\OPTServer\Commsboard.
2. Open IPControl.properties.
3. Edit the following:
 - a. #Controllers= - this is the number of DIGI boards that are connected.
 - b. IP= in Controllers section for each DIGI with the correct IP address.

```
[General]
#Controllers= this is the number DIGI boards that are connected
controllers=2
MaxTxLen=512
msgformat=xml
xmlport=10606
loglevel=55
#sitecon=CONTROLLER1
```

```
[CONTROLLER1]
loglevel=55
IP=172.16.152.21
PORT=2101
#Side1Ch2=PINPAD
#Side1Ch2Control=external
#Side1Ch3=PRINTER_SWECOIN_2010
#Side1Ch4=BARCODE
#Side1Ch4Control=external
#Side1Ch4=BARCODE
Side2Ch2=PINPAD
Side2Ch2Control=external
Side2Ch3=PRINTER_SWECOIN_2010
Side2Ch4=BARCODE
Side2Ch4Control=external
```

```
[CONTROLLER2]
loglevel=55
IP=172.16.152.22
PORT=2101
```

```

Side1Ch2=PINPAD
Side1Ch2Control=external
Side1Ch3=PRINTER_SWECOIN_2010
Side1Ch4=BARCODE
Side1Ch4Control=external
#Side2Ch2=PINPAD
#Side2Ch2Control=external
#Side2Ch3=PRINTER_SWECOIN_2010
#Side2Ch4=BARCODE

```

SCIF / OPTserver Properties

The SCIF.properties file contains the configuration for the IPT for the appropriate site controller.

1. Navigate to c:\OPTServer\run\properties.
2. Open **SCIF.properties**.
3. Edit the following:
 - a. SiteConType = (DOMS for DOMS stores and MICROLEC for NV9730).
 - b. SiteConIPAddress= (Enter IP Address of the DOMS or NV).
4. Save and close the file.

The OPTserver.properties sets up the communication settings for the individual IPT units i.e. each side of the main unit. An example is shown below.

1. Open OPTserver.properties.
2. Edit the following:
 - a. OPT0.CoreProperty.ATSWorkstationId = (set to last workstation ID).
 - b. OPTx.PosId = (set to physical ID for the OPT side).
 - c. OPTx.CoreProperty.ATSWorkstationId = (Workstation ID for each OPT side).
 - d. Ensure Variable Authorisation is turned on and limits are set.

```

Example
# transaction clearer - OPT 0
#####

OPT0.Type = Clearer
OPT0.Printer = none
OPT0.CoreProperty.TerminalType = none
OPT0.CoreProperty.ATSWorkstationId = 20 —Set to last POS number for the system
OPT0.CoreProperty.ATSCheck1 = 20017 —This should match the Client Port number in ACK

# OPT 1
#####

OPT1.Type = CRIND —Set to CRIND for integrated Payment Terminal or OPT for Outside Payment Terminal
OPT1.TerminalType = SPOT
OPT1.TerminalIP = 172.16.152.39
OPT1.HeadNumber = 1 —For CRIND each Pump can have two sides, after setting the head number set the side
OPT1.HeadSide = 2 number, setting the side number (1 or 2) will determine which printer is used.
OPT1.PosId = 4 —Set POS number, (each CRIND / OPT is acting as a POS)
OPT1.PumpList = 8 —Set the Pump number that the CRIND is connected to. For OPT this could have a
OPT1.Printer = IP 2010 number of pumps connected, these would be listed a comma separated i.e.1,2,3,4
OPT1.Scanner = SpotSerial
OPT1.CheckPaperLow = false

# Core (ATS) setup for OPT1 —This should match the Client Port number in ACK
OPT1.CoreProperty.ATSCheck1 = 20008
OPT1.CoreProperty.ATSWorkstationId = 4 —The workstation Id should match the POS number

```

```
# OPT 2
#####

OPT2.Type = CRIND
OPT2.TerminalType = SPOT
OPT2.TerminalIP = 172.16.152.40
OPT2.HeadNumber = 2
OPT2.HeadSide = 1
OPT2.PosId = 5
OPT2.PumpList = 9
OPT2.Printer = IP 2010
OPT2.Scanner = SpotSerial
OPT2.CheckPaperLow = false
```

Note: For CRIND printer (M3) using IP Control board set to IP 2010, for N3 set to SpotJob

The other area to change is the Grade set up this needs to be set for the grades being used on site and the Groups (Department groups) used in the system.

```
Grade_1 = Unleaded
Grade_1_Item = 1
Grade_1_Group = 100
Grade_1_EftCode = 1
Grade_2 = V-Power
Grade_2_Item = 2
Grade_2_Group = 100
Grade_2_EftCode = 21
Grade_3 = Diesel
Grade_3_Item = 3
Grade_3_Group = 100
Grade_3_EftCode = 5
Grade_4 = MGO
Grade_4_Item = 4
Grade_4_Group = 100
Grade_4_EftCode = 6
Grade_5 = Kero
Grade_5_Item = 5
Grade_5_Group = 100
Grade_5_EftCode = 7
```

- # whether to present a list of values for fixed (rather than open) limit preauthorisation VariableAuthorisationLimit = true.
 - # csv list of limits to be presented to operator (max 7 entries) VariableAuthorisationLimitOptions = 10,20,30,40,50,80,100.
1. Edit VAT number and Rate
 2. Save and close the file.

Receipt and Ticket changes:

1. You will need to put the site name and address into the Receipt and Ticket files, these are found in the OPTSERVER\RUN directory.

Examples:

Ticket:

```
(Centre) M4 Enfield Westbound 9151
(Centre) Martinstown
(Centre) Cadamstown
(Centre) Co Kildare
(Blank)
(Centre){0}
(Blank)
{1}
(Blank)
(Centre)THANK YOU FOR CALLING
(Blank)
(Blank)
(Blank)
```

Receipt:

```
(Centre) M4 Enfield Westbound 9151
(Centre) Martinstown
(Centre) Cadamstown
(Centre) Co Kildare
(Blank)
{0}
(Blank)
(Centre)Separate here for VAT receipt
(Centre)-----
(Blank)
(Centre) M4 Enfield Westbound 9151
(Centre) Martinstown
(Centre) Cadamstown
(Centre) Co Kildare
(Blank)
{1}
(Blank)
{2}
(Blank)
(Centre)VAT no:{3}
(Blank)
(Centre)THANK YOU FOR CALLING
(Blank)
(Blank)
(Blank)
```

Create OPT POS Directories

1. Navigate to c:\bomtrans.
2. Create postransXX for each IPT.

Configure Pump Configuration

1. Copy pumpconf.txt from the Prism back office to c:\programme\logware\lucas.
2. Open a command prompt.
3. Type lshell and press **Enter**.
4. Type *Prism_fcrt_xml -s pumpconf.txt*
5. Once finished type exit.
6. Close the command prompt.

Example IP Structure for a standard site

IP Structure For 12 IPT's, 3 POS's, 1 BOS, 1 OPT Server and 1 Site Controller

Pos 1	192.168.0.1
Pos 2	192.168.0.2
Pos 3	192.168.0.3
BOS 1	192.168.0.10
OPT Server	192.168.0.20
Site Controller	192.168.0.19

IPT Digi Board

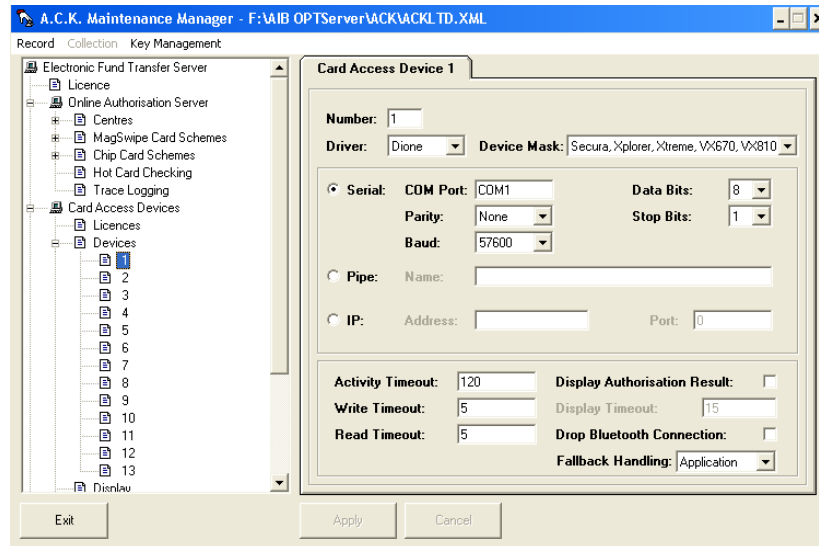
1	192.168.0.21
2	192.168.0.22
3	192.168.0.23
4	192.168.0.24
5	192.168.0.25
6	192.168.0.26

	IPT Main IP Address	Work Station Number
1	192.168.0.31	4
2	192.168.0.32	5
3	192.168.0.33	6
4	192.168.0.34	7
5	192.168.0.35	8
6	192.168.0.36	9
7	192.168.0.37	10
8	192.168.0.38	11

9	192.168.0.39	12
10	192.168.0.40	13
11	192.168.0.41	14
12	192.168.0.42	15

ACK (ATS) Set up

Card Access Devices



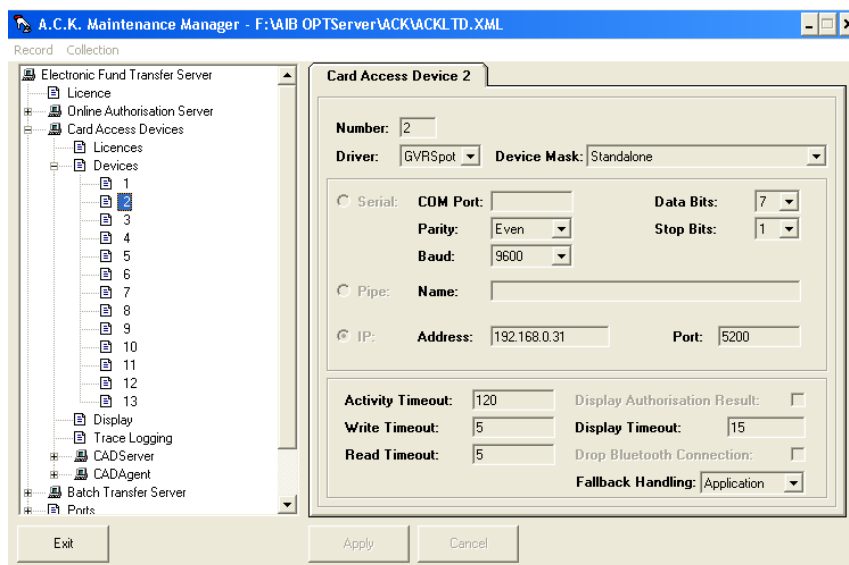
ACK Maintenance Manager – Card Access Device 1

Update the options as follows:

1. **Driver:** The **Driver** option must be set to **Dione**.
2. **Device Mast:** The **Device Mast** must be set to **Secura**.
3. **COM Port:** Set an unused **COM Port**.

Each IPT Pin Pad needs to be set up plus 1 clearing device for the OPTserver which must be device 1.

Device 1: Choose a com port that is not in use, this is a dummy setting to allow the clearing service for the OPT Server to finalise the transactions. Ensure all other settings are as shown.



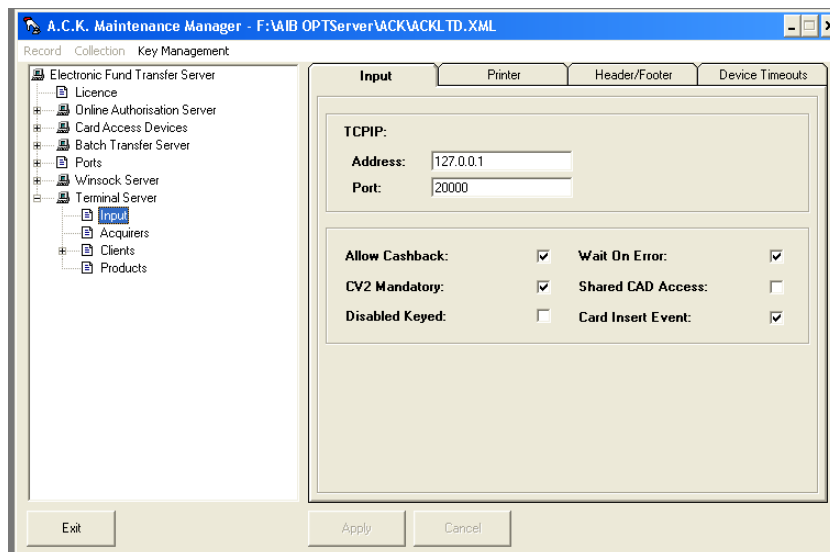
ACK Maintenance Manager – Card Access Device 2

Update the options as follows:

1. **Driver:** Set Driver to **GVR Spot**.
2. **Device Mast:** Ensure Device Mask is set to **Standalone**.
3. **IP Address:** Set for IP address of the IPT Pin Pad, using Port **5200**.

These settings are required for each IPT Pin Pad on the system.

Terminal Server

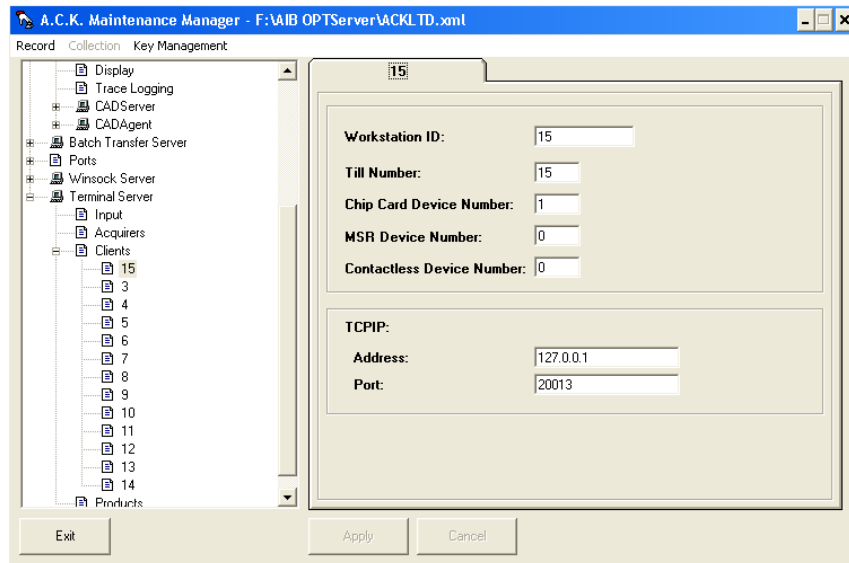


ACK Maintenance Manager Input

Update the options as follows:

1. **TCP/IP Address:** Set to **127.0.0.1**, this is a default IP address for the system.
2. **TCHIIP Port:** This port number must match the ATS Channel2 port setting in OPTSERVER Properties.

INPUT: The Terminal service Input section is the connection between the ACK software and the OPT Server software for the OLA and transaction completion.

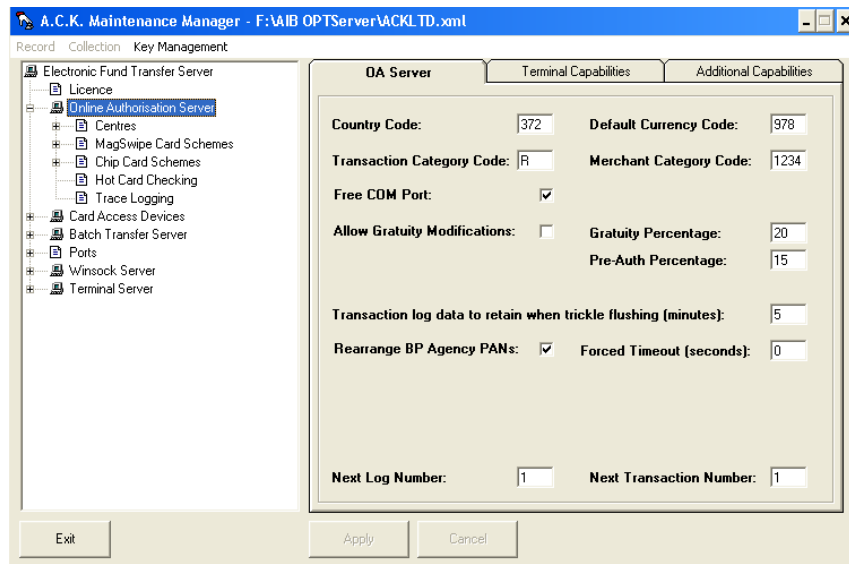


ACK Maintenance Manager – 15

CLIENTS: The Terminal Server Clients section is the individual connection for the connection between the ACK software and the IPT units.

Online Authorisation Server

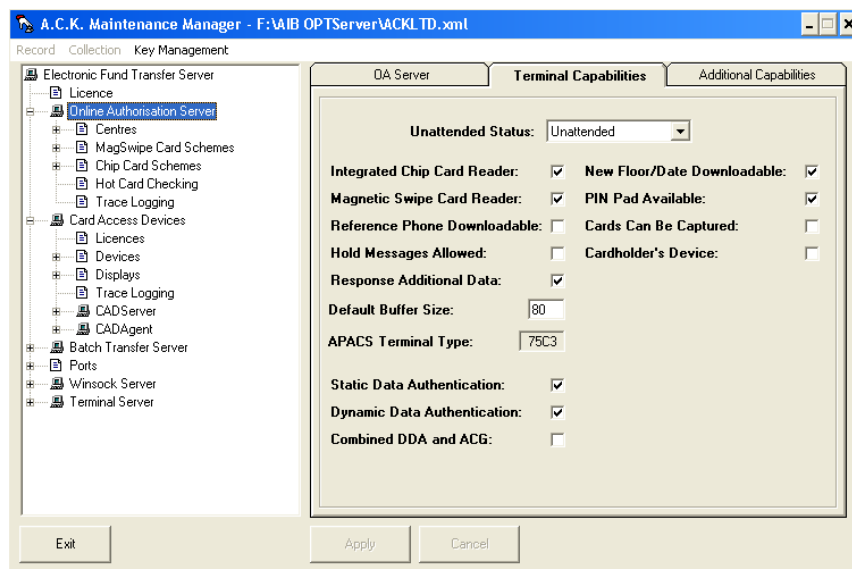
The Online Authorisation will be going via Datacash over IP. This is for both OLA and Settlement, the settlement is sent x minutes (x =configurable) after the transaction has been concluded.



ACK Maintenance Manager – DA Server

Update the options as follows:

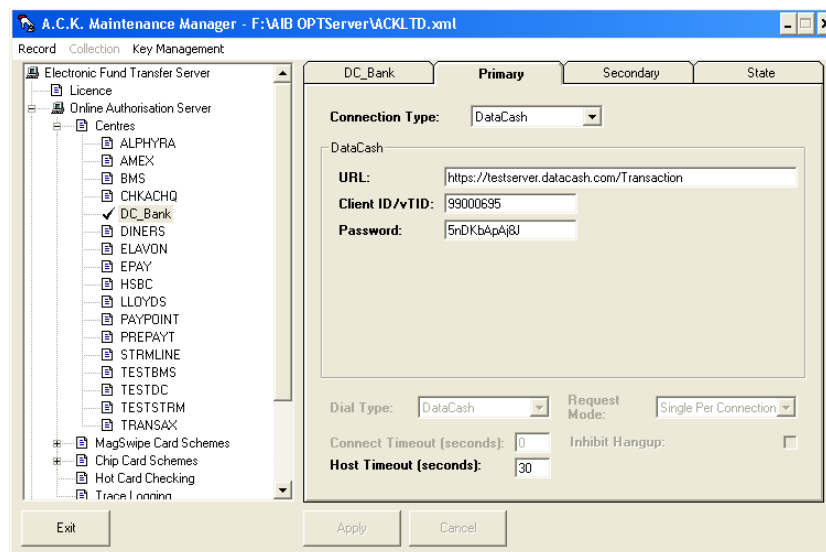
1. **Country Code:** Ensure Country and currency codes are set as shown in the screenshot. These settings are for Ireland
2. **Transaction log data to retain when trickle flushing(Minutes):** This is the setting for time between transaction completion and transaction being sent to Datacash. Default is 20 Minutes suggest 5 Minutes for IPT systems



ACK Maintenance Manager – Terminal Capabilities

Note: Set all the options as displayed in the screen shot.

Datacash Settings



1. **DataCash:** Set the connection type to Datacash, you will be given a URL, Client ID and password from Datacash

Licence Settings

Ensure that these settings are ticked, if any are of these settings are incorrect then a new licence is required.

ACK Maintenance Manager- Licence

Note: The Licence Code, Application Serial Hash, Company Name and TID will be issued with the Licence. To set the other options use options given the [ACK Maintenance Manager- Licence](#) screen shot.

Bank Card Set up

All other ACK settings are set up according to bank card requirements. There are two extra settings for each card type in the **Floor/Ceiling /Usage** tab. These are set according to the SIF supplied by the card services agent. This will allow each card type to have different settings if required.

ACK Maintenance Manager-Floor/Ceiling/Usage

1. **Fuel Pre-Auth Value:** This limit is then Pre-Authorisation amount that will be sent to the OLA agent.
2. **Fuel Pre-Auth Ceiling:** This is the maximum amount that will be set for any transaction for this card type. This will be sent to the pump as a preset amount.

Prism & Iridium Set up

Iridium Configuration

To be completed on each POS.

1. Log into the POS under engineer profile.
2. Connect from the POS to the OPTserver with following credentials.
 - a. Username: POS
 - b. Password: torexretail
3. Navigate to \c\install\pos required files.
4. Copy multicastrelay folder to c:\arcpos
5. Copy programme folder to c:\
6. Copy *OPTPath.txt* to c:\arcpos.
7. Open the Multicastrelay.properties file and check the Sockets are set as below: these will need to match the settings that will be in the *Scif.Properties* file

```
# multicastrelay properties
#####
```

```
# Socket settings
# -----
MulticastPort = 4446
MulticastGroup = 230.0.0.1
RelayPort = 4447
RelayIP = 127.0.0.1
```

8. Run the *installservices.bat*, then go to Services and start the service Multicast Relay
9. Overwrite ARCPOS\IMAGES\STANDARD with the new Standard's directory.
10. Copy OPTCONF.TXT file into the ARCPOS directory
11. Run Java installer (click next through each window).
12. Restart the till.

Prism Configuration

1. Update Prism and Iridium to v15sr5.1 or above.
2. Log in to Prism under Level4.
3. Navigate to Maintenance>Utilities>POS Configuration.
4. Add No. of OPTs to POS Configuration.
5. Map each OPT by qualified path. For example [\\OPTServer\Bomtrans\PostransXX](#).
6. Navigate to c:\bomtrans.
7. Create posXX folders for each OPT.
8. Go to Maintenance, Utilities, Fuel, Amend Pump Setup, Physical Details, OPT Only
9. Set to **Yes** for each OPT Pump.
10. Go to Pos configuration, Build Pump control Config.
11. Reboot Tills.

12. Ensure a Iridium User ID for OPT is set up and the ID and Password are set the same, (see configure OPT server Section 2).

OPT Wayne Hardware

The main hardware for the IPT is based around the original Wayne framework. The IPT consists of:

1. x Main housing Body.
2. x IPT doors (Including Chip & Pin card reader, PIN PAD and printer)
3. x Low voltage router.
4. x Power assembly module (including Power supply unit, heater and power board incorporating the Digi controller unit).

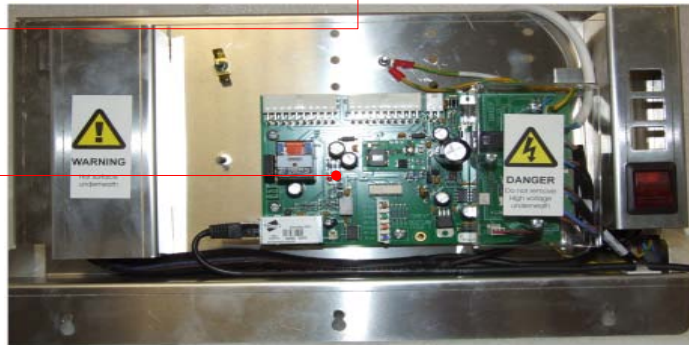
Power Assembly

Power connection
for Low voltage
router

Rear side power
and Data Plug

Front side Power
and Data Plug
(this side)

Digi Unit / IP
connection



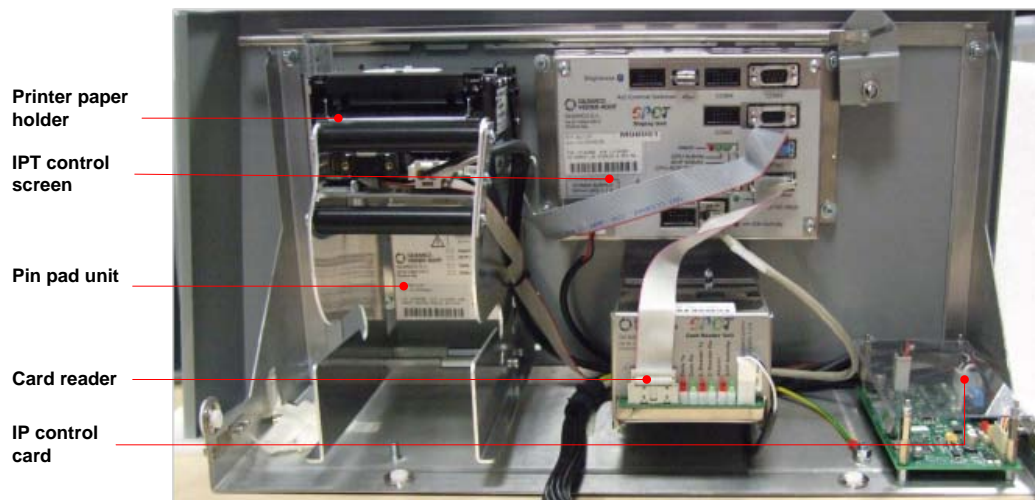
Power Assembly: (Actual PSU on reverse side)

Front of Door Assembly

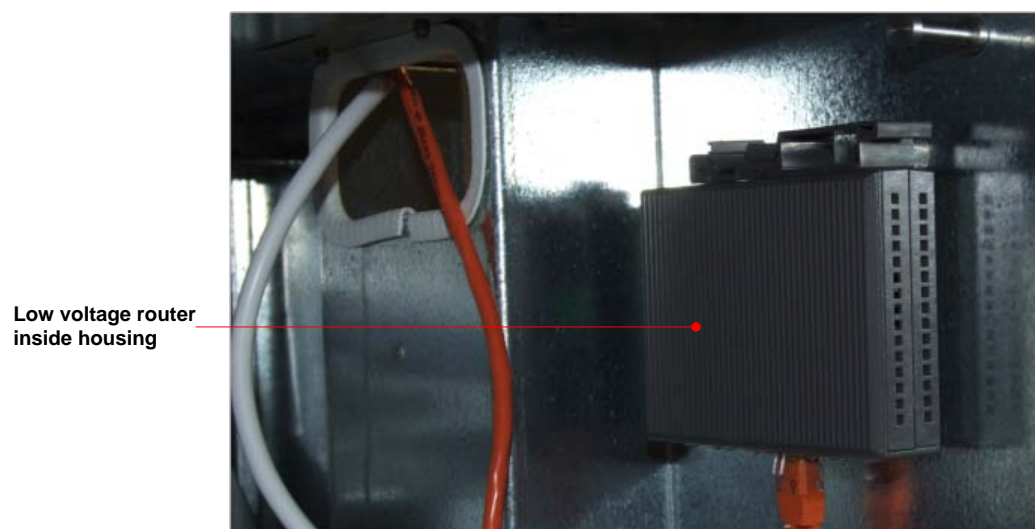
Main Door unit showing IPT control screen, Card Reader, Printer, Pin Pad, and IP control card.



Front of Door assembly



Rear side of the Front Door



Low Voltage Router

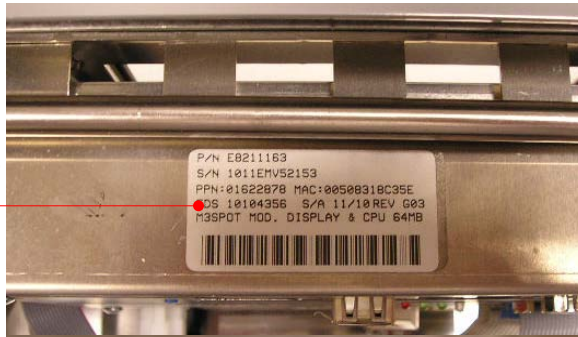
Activating the IPT

To Activate the IPT you will need to do get the IPT into the correct position to allow you to enter the code that will activate the unit. On the top of the IPT Screen unit you will find a PPN No, you will need this number as part of the activation process.

PPN Number

The PPN number is located on top of the SPOT screen unit.

You will require the last 6 digits of the PPN number. For example: 622878



PPN Number

Getting into the system parameters

1. Turn the system on, as the screens come up it will come to a point where you are able to enter 1 on the pin pad, press **1**.



2. You will then be requested to enter the Password, this is the 6 digits of the PPN number .



3. The next screen allows you to go into two areas:
- <1> - SETUP MENU:** This allows you to set up the IP address.
 - <2> - SECURITY SETUP MENU:** This is where you activate the system.
This should only be done when the unit is being built or when a major component is changed. For example: Pin Pad or Screen unit.



4. To set up the IP address, choose **<1>- SET MENU** on the Pin Pad to go into the Setup Menu. The following screen will be shown.



5. Select the 1 button on the Pin Pad to enter the IP/Sub net mask. Using the **Enter** to move between sections on the IP address.
6. Once the settings have been changed you will return to the screen above, at this point press the **OK** to Save.

You will now go back to Service Menu Screen select <2>- **SECURITY SETUP MENU**, you will then see this screen.



7. At this point you will need to contact Gilbarco for a password to activate the unit.

Note: For details, you will need to call the Italy support team, therefore make sure you are in this screen when you call or are in a position to get into the screen.
00390555273390.
