The Enabler – Site Installation Check list

Document Revision 2.1

FDM = Forecourt Distribution Module (Provided by ITL)

Pre-installation resources

There are a number of resources provided by ITL or equipment suppliers which should be used during installation or be available for problem resolution.

Installation check list	
Enabler Installation Instructions. This document is available on the installation CD provided by ITL. It is normally located in the root folder of the CD or in the 'Enabler Install' folder.	
Latest FAQ information for the pump types being installed on site. These documents are available on the ITL website at http://www.integration.co.nz/FAQ.htm	
Local safety and wiring regulations	
Setup instructions available for specific pumps (or authorised pump service person on hand)	
Recommendations from pump manufacturers on cable type and connections - type of cable - maximum lengths - signal shield grounding	
Check familiarity with Enabler Hardware LED Indicators http://integration.co.nz/FAQ-LEDs.php	
If you are unsure of this process, or you have not installed Enabler Embedded before; We recommend you read through and practice this process in a lab environment (as much as is possible) to ensure you know what to expect and have the tools & equipment you need to succeed.	

Site Preparation

This section is a checklist for tasks that should be performed in advance of the planned day for installation. Once these items are complete the site should be ready for installation.

Site layout reviewed and location for FDM, Server (containing Enabler card) has been decided. Location for peripherals attached to Server must also be considered.	
Necessity for lightning protection has been considered, and is available if required.	
Location for FDM mounting has been prepared; pump communications cables already installed and terminating at site for FDM. If pump communications cables have not already been run through forecourt conduit then arrangements for this should be made.	
Location for Server has been prepared	
Routing for cable from Enabler to FDM cables has been cleared/prepared	
Routing for cable from Enabler to Tank Gauge has been cleared/prepared	
Number of Tanks:	
Number of Grades:	
Number of Pumps (and Hoses per pump):	
Enabler card purchased.	
Correct FDMs purchased.	
Correct FDM power packs purchased. See FAQ: http://www.integration.co.nz/FAQ-FDMPowerSupply.htm	
Decision made about requirement of UPS for server.	

Server Preparation

This preparation can be performed before taking equipment to site.

Windows and Enabler Server software installed.	
Installed required Enabler patches and/or Pump Update.	
Ports configured.	
Tanks and Grades configured.	
Pumps and Hoses configured (Connected to correct Port, Correct Pump Type selected, Display Format checked). Check for configuration details in FAQ.	
Grade pricing configured.	
Pump Modes / Site Modes configured (Auto Auth, Stacking options etc).	
Tank Gauge configured as per FAQ.	
Other server software installed (POS etc).	

FDM Installation

Mounting can be performed before equipment is transported to site. Other items are performed at site.

If FDM card has jumpers – are they set correctly.	
Mounting boxes/housing prepared with holes for appropriate number of pump communications cables, Enabler communication cables and FDM power wires. Glands should normally be fitted in each hole to prevent built up of dirt inside mounting box.	
FDM Cards fixed to mounted in boxes/housing	
FDM box securely fixed to wall or rack	
Power connected to FDM http://www.integration.co.nz/FAQ-FDMPowerSupply.htm	
Enabler communications cables connected at FDM end	
Enabler communication cables routed and secured in place between FDM site and Server site.	

See also http://www.integration.co.nz/FAQ-FDMInstall.htm

Server Installation

This part of server installation is performed on site.

UPS installed	
Server installed.	
Enabler cables connected and secured.	
Peripheral devices connected and operation checked.	

Communications Check

This process checks communication with external devices connected to the Enabler. ITL recommends that the pump communication cables are connected one at a time and each pump is checked for good communication before the next pump is connected. This approach makes fault diagnosis easier.

The Forecourt Manager Application can be used to check pump communication. The pump icons will show a red cross when pump communication has not yet been established.

Without the pump communications cables connected power up both Server and FDM hardware.	
Check that the receive LED (Rx) on the FDM are flashing at the same time as the Red Transmit LED on Enabler card	
For each pump follow these steps:	
Power off FDM and connect the pumps communication wires as per the appropriate FAQ.	
Power on FDM. If the FDM has a green LED indicating connectivity, check this LED is On.	
Check that the pump responds – if problems are found check all configuration and connection as per the appropriate FAQ and fault diagnosis diagrams.	
Check pricing on pump – if the price is incorrect correct the display format following the display format on the pump.	
If possible, perform a grade price change and verify the pump change as expected.	
Lift each Hose/Nozzle in turn and check that the appropriate grade is displayed on Pump Icon. Grades configuration for the Pumps Hoses may need to be corrected.	
It is worthwhile performing some test deliveries on pumps to ensure that Display Format and Delivery Details are correct.	
To connect a Tank Gauge to Enabler follow the FAQ 'Connecting Tank Gauge to Enabler'. Temperature and level information can be viewed using the Enabler Wetstock Application when good tank gauge communication has been established.	

Final Checks

These are final checks before leaving the site.

Manually run the Enabler Database Backup, wait for it to complete and copy the backup from the system. *Tip: Once you have ever everything setup and working this could save time to setup similar sites, or if support for this site is required later.*	
FDM mounting boxes sealed/closed.	
UPS power failure test.	
Pump prices are correct.	
If you have any questions about the site installation or operation you want to escalate to ITL Support, remember to collect log files. Tip: the best and quickest way to do this is using our Auto Support tool: C:\Enabler\AutoSupport.exe.	
Site manager & staff are briefed on how to report problems (eg report date & time problem occurred)	