

## In this issue

- [Theft protection](#)
- [Protocols](#)
- [Regulatory](#)
- [Functionality](#)
- [Hardware](#)
- [Documentation](#)

### Did you know...

With the **PSS 5000**, we use the terms **Attended Mode**, **Attended Stand-alone** and **Fallback Mode** – the differences in these terms are explained below.

In **Attended Mode**, the customer is serviced by an attendant, who is on the forecourt, and the forecourt is operated with a POS.

**Attended Stand-alone** is a PSS application built for **Attended Mode** operation (as above), but without a POS.

**Fallback Mode** is a temporary **Attended Mode** for a system normally operated with a POS, but where the POS is not operational. By using the **Fallback Mode** when the POS is temporarily not working, it is faster than switching individual dispensers to manual and the **PSS** keeps the exact status for the sales that occurred in **Fallback Mode** – so no data is lost for reporting.

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## Theft protection

### Reduce the risk of fuel theft by controlling the power to the dispensers



After experiencing thieves opening dispensers, which were not authorized, and starting the pumps, Doms customers wanted an easy-to-implement, cost-effective solution.

Although dispenser manufacturers offer solutions to this problem, they normally involve special, often costly, rebuilds of the dispensers. Experience shows that work subsequently carried out by Service Technicians can, and often does, result in the technicians forgetting to re-activate the built-in protection – leaving the dispenser unprotected once again.

Doms offers its customers a centralized solution. By installing 2 small hardware components in the Mains power distribution panel (a secure location), the **PSS 5000** is able to control the power supply to the dispensers. While not in use, the dispensers appear normal, illuminated displays etc, but 2 phases of the power supply to the suction pumps are isolated. Only after a transaction has been authorized by a POS, or OPT, is the power supply restored to the suction pump – preventing thieves from activating the pumps and stealing the fuel. This is a solution that:

- Works independently of the installed POS system
- Works independently of the installed OPTs
- Works independently of the brand of the installed dispensers
- Cannot be bypassed in the dispenser
- Can be used on both manned and unmanned sites
- Can be easily installed by the oil companies' existing service partners

For more information, see the Application Note, Fuel Theft Protection (for suction dispensers) – ref.: PSS5000/APNO/804763/--.

## Protocols

### 3 new dispenser protocols available

The first protocol is the **Galileo** dispenser interface protocol. It is used with Galileo LPG and ASPRO LPG dispensers, which are commonly installed in Latin America and South East Asia. The second protocol is the **Tatsuno Benc PDEX** protocol, which is used in Russia and countries close to Russia. The last protocol is the **L&T 2T Mix**, which supports oil mix products with variable % mixtures and is used, specifically, in India.

The following protocols are under development: **Seetax MPD**, used mostly on the Iberian Peninsula, and **Prompribor**, used in Russia. Both these protocols are expected to be released in Q4/2010. For details about other interfaces on the PSS 5000 SW roadmap, please contact Doms Sales.

## Regulatory

### Release of new Approval Guide

To help all those involved in obtaining W&M approval for a site (rather than individual devices), Doms has released a high-level guide that describes what is required, where information is available and how to get started in obtaining approval.

The guide, "W&M Approval for Systems with PSS 5000" is available from Doms – ref.: PSS5000/USGU/804930/--.



## Functionality

### Vehicle identification using the Orpak VIT Controller

For an oil company in Spain, Doms has implemented the protocol for Orpak VIT controllers and included the basic VID control functionality in the PSS.

In this scenario, when a vehicle tag is detected the PSS captures the data and forwards it to the POS system, where it is validated before the dispenser is started. If the fuelling nozzle is removed from the vehicle, the PSS stops the dispenser until the nozzle is put back into the same car – otherwise, a new authorization is required.

### Wayne PT-4000 Terminal with PayLife Bankomat payment module

With the integration of Wayne's PT-4000 CRIND Terminal for an oil company in Austria, yet another variation of payment integration has been added to the PSS.

With this terminal, the PSS is required to:

- Manage Pay-In / Pay-Out selection on CRIND
- Control EMV payment via a PayLife Bankomat EFT module in the CRIND
- Capture log data from the EFT module and forward it to a log server in the POS.
- Format receipts, including payment slips and print control
- Monitor CRIND alarms (e.g. access switch)

### POS application on Gilbarco SPOT OPT



For an oil company in India, Doms has built a POS application using a Gilbarco SPOT OPT for post-payment of fuel and dry stock on the forecourt.

Payment methods include bank cards, loyalty cards or cash. This application is very similar to normal indoor POS applications for post-payment, but very different to the unattended payment solutions that have been part of the PSS since the first version in 1981.

### Intelligent 3rd Party Terminals

In the solutions above, the payment terminals are considered unintelligent. The recent updates we made to the Doms POS Protocol for handling 3rd Party Intelligent Terminals, where the terminal application is outside the PSS and shares the forecourt with the POS, have been well received and are already used in major projects.

For more details about payment solutions using a Doms PSS, don't hesitate to contact us.

## Hardware

### New interface modules (HIMs) give more flexibility, robustness and MID\* conformity

Several new PSS 5000 interface modules have been introduced. These modules are MID compliant and meet the increasing demand for modules that fill less space.



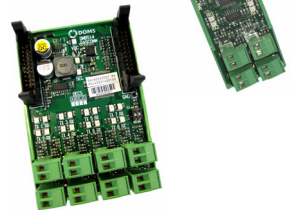
The new DSB511, which is a 4 connector version of the 8 connector, 2-wire Current Loop DSB492 module used with Gilbarco dispensers, has been introduced. It fills half the space of the 8 channel module, and costs approximately 30% less than DSB492.

Similarly, the DSB510 is a narrow version module for use with Wayne 2-wire, 30mA CL dispensers.

The DMB514 is an 8 channel, 2-wire interface module, primarily for use with the GASCOMM dispenser.

The modules fulfill the EMC requirements defined in MID.

For a complete list of released HIMs and supported protocols, see the Hardware Configuration Guide – ref.: PSS5000/CONF/804473/--.



## Documentation#

- Doms POS Protocol, Application Level Specification, Control Functions (PROTOCOL/SPEC/804706/--) updated to support 3rd Party Intelligent Terminals
- New combination document (WIN32/INTF/804922/--). The PSS Forecourt Interface Components, Interface Specification has been published in a single document with the DPP, Application Level Specification, Control Functions. Providing easy navigation between Interface Components and Doms POS Protocol
- New Approval Guide. W&M Approval for Systems with PSS 5000 (PSS5000/USGU/804930/--). Describes what is required to obtain system approval for a forecourt

\* MID is a European Weights and Measures directive

# Some Doms documentation is only available when a valid NDA and/or Support & Maintenance Agreement is present