

# FRONTLINE CONTROL SYSTEMS CONNECTOR

## Automated corrective and usage-based PM Work Orders triggered by SCADA and BMS

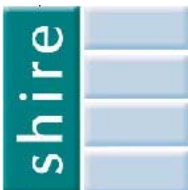
When operating equipment is monitored and controlled using a digital system, such as, a SCADA (Supervisory Control and Data Acquisition System) or a BMS (Building Management System), a real-time link can be made between the equipment and FrontLine Maintenance Management

By means of the FrontLine Control Systems Connector, existing sensors and meters are able to pass equipment fault alarm and usage data directly to the maintenance management system to automatically generate corrective and PM (Preventive Maintenance) Work Orders

### Benefits

- Early detection of equipment defects
- Quicker repair response
- Reduced repair costs and avoidance of collateral damage
- Increases maintenance quality – due to standardised repair and maintenance instructions and fault diagnostics
- Automated usage-based maintenance
- Automated monitoring of energy and utility usage
- Increased equipment reliability, service and customer satisfaction
- Eliminates admin and paper
- Frees up employee time for more productive work
- Avoids human error and omissions
- Increased data accuracy and integrity
- Increased safety - better assures regulatory compliance and due diligence
- Affordable automation with immediate gains and

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### How it works

#### Fault alarms

SCADA/BMS sensors continually monitor the condition of operating equipment and trigger an alarm when a fault condition or reading outside defined limits is detected. Alarm details are picked up and recorded in FrontLine, where a Work Order for corrective maintenance is automatically generated.

The system enables a detailed maintenance response, containing full diagnostics and task instructions, to be pre-defined for each alarm – ensuring the most appropriate action is taken every time.

The automated data flow and FrontLine system response assure fast reaction to failure. The time stamping of events supports due diligence responsibilities and aids better tracking of MTBF (Mean Time Between Failure) and MTTR (Mean Time to Repair).

#### Usage meters

Meters measure equipment usage – hours run, cycle count, throughput units, etc – with readings being logged by the SCADA/BMS system. Meter readings are automatically fed into FrontLine where they provide the basis for usage-based PM.

FrontLine allows for the maintenance of an item of equipment to be planned in terms of operational usage – for example, every 200 hours. The system then checks the actual usage reported by the meter readings against the defined maintenance frequency and generates a PM Work Order when the trigger value is reached.

The system may also be used to automatically track and trend energy and utility usage – steam, electricity, gas, water, etc.

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## What do you need?

Besides FrontLine Control Systems Connector, you'll need:

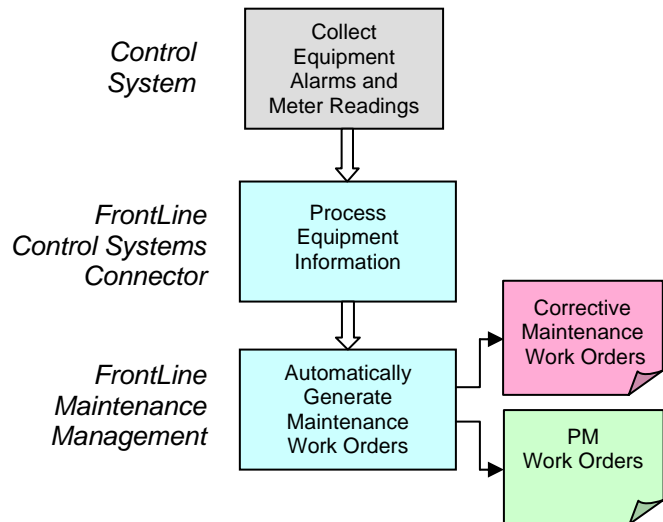
- FrontLine Maintenance Management
- FrontLine Data Exchange
- Assistance with system configuration, installation and commissioning



◀ *FrontLine Control System Connector was installed to monitor 9000 alarm points on the €732m, state-of-the-art Dublin Port Tunnel in the Republic of Ireland, opened in December 2006*

## It transforms performance

Automatic data collection and processing is quicker, more accurate and secure than a manual system using paper forms or a handheld computer. Manual systems are notoriously prone to delays, omissions, errors and insecurity. With manual data collection, operator absences and distractions can cause equipment fault conditions to be overlooked and ignored - with possible grave consequences for the safety of employees, the public and the environment. Manual systems can suffer from built-in time delays in fault detection and, in the case of paper-based systems, administrative queues. Delays in data flows impair the efficiency of an organisation and, in the case of time-critical information, can pose a serious threat.



Find out more. Contact us today



**Shire Systems Limited**  
1 Mountbatten Business Centre  
16 Millbrook Road East  
Southampton SO15 1HY  
United Kingdom  
Tel: +44 (0) 23 8022 4111  
Email: [info@shiresystems.co.uk](mailto:info@shiresystems.co.uk)  
[www.shiresystems.co.uk](http://www.shiresystems.co.uk)



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