# RedPoint Enterprise Software Framework

HVAC Compliance and Asset Management System



Version: 16



#### **Benefits**

Capture, centralise and manage all essential asset information from one common platform.

Deliver improved asset reliability and reduce downtime

Increase asset life expectancy by delivering essential and reactive maintenance efficiently

A single access point for assets across many locations

Enforce strict regulatory compliance across your enterprise

Reduce costs of service delivery

Save money and time by reducing staff training and adoption

Produce accurate Key Point Indicators (KPIs) to drive effective change

## Introduction

Any organisation who is responsible for more than a few physical assets will appreciate that the burden of managerial tasks associated with maintaining, documenting, insuring, and replacing such assets presents more than its fair share of problems.

RedPoint F Gas provides a robust and scaleable solution that brings together simplicity, compliance and best practice in one common platform from which to manage the daily responsibilities faced by HVAC service and installation companies as well as actual asset owners.

# Simplicity from the start

From the moment you add your first customer, the simplicity of RedPoint quickly becomes refreshingly apparent.

By delivering a set of specific tools developed in conjunction with the HVAC industry and engineers RP delivers simplicity and power that is totally tailored to make the job of managing HVAC assets a pleasing and stress free experience.

#### Out of the box benefits

- PDF Electronic F Gas certificate
- Install certificates
- Manage multiple engineers
- Unlimited sites
- Unlimited systems
- Multiple visits
- Split systems
- Multi compressor units
- Flexible engineer management.
- Re assign jobs on the fly
- Ultra simple iOS mobile interface
- Fast learning curve
- iPad and iPhone compatible
- Powerful web based enterprise back office
- iCal export
- Asset lists
- F Gas tracking by asset and bottle
- Assign jobs to sub contractors
- Electronic customer signature capture
- Powerful asset search
- Complete service overview

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## A package for everyone

Because every organisation is different RedPoint F Gas is designed to be relevant and contemporary with several deployment options available to meet even the most demanding of clients. Currently the software is available:-

# SaaS (Software as a Service)

For small companies wanting to take control of their paper based asset management and service engineers this option provides a straight forward signup and go solution. Typically available from RedPoint F Gas resellers SaaS delivers an affordable pathway to using the software with the added advantage of an easy to understand pay per use model that brings all the benefits of RedPoint F Gas to very affordable levels.

## Dedicated in house

For those looking for even more control over their software there are in house options. Perhaps you already have a IT provider that manages your internal servers or feel that you are not quite ready for "cloud". RedPoint F Gas can be deployed on your own dedicated servers in your building and further secured by your own firewalls and end point management solutions. You take responsibility for backups and these can be integrated into your existing tape streamers to reduce costs further.

#### Private cloud

Similar to dedicated in house, private cloud lets you host your software on a number of leading cloud platforms. RedPoint F Gas is certified Ready for IBM PureFlex and offers the larger user unrivalled elasticity and capacity for cost options.

# Integrations and customisations

When clients demand specific functionality that may not be available or enabled in current public and private cloud offerings, the next step is integration or bespoke customisations.

RedPoint is a highly adaptable framework that can be tailored and extended to provide those features you require to get the best from it.

## For example:-

- Customised reporting
- Integration with other FM platforms
- Integrate with bespoke mobile apps

RedPoint Integration specialists can build custom modules for any conceivable need.

Unit Test Form with FGAS Operating Voltage Current A1 High Pressure Current A2 Coils Current A3 Fan Motor Electrical Terminals Compressor Test Notes Heat Pump Op Machine Notes Low Ambient Op Crankcase Heater Record any refrigerant additions/removals and the result of any leak tests Auto leak. Follow up actions Select Delivery Bottle Select Recovery Bottle Click to add Optional image

Fig 1.0 Example of iPad app for engineer use

# A number of cost and efficiency benefits

Cost and efficiency improvements are obvious drivers for change and form a large part of any decision to migrate to or adopt new technology.

In layman's terms RedPoint F Gas offers immediate calculable benefits by reducing the time and cost expended to carry out existing service work. See <a href="http://www.fgas-software.com/?">http://www.fgas-software.com/?</a>
<a href="mailto:search">s=calculator&submit=Search</a>
to access our simple online calculator. Put simply, switching to paperless document and service management saves approximately 66% gross or 33% net costs over the first year. This in itself offers a significant value incentive to any organisation but what about the incidental benefits?

By incidental costs we mean the benefits seen as a result of improving one process and the knock on effects that has upon any other connected process in the organisation.

#### Reduced error.

By encouraging good practice and the provision of simple to use software tools, errors are reduced significantly. Often a single error can have a huge negative impact on profitability of any service. By reducing or eradicating error such problems are significantly reduced.

#### Improved customer experience.

With a faster more reliable provision of service more time is left for actually focussing on customer centric activities and CRM activities. The result is that customers are happier and more likely to recommend your service.

#### Reduced staff training.

A large often ignored factor. By employing simple more reliable systems staff can be prepared for work much faster. Electronic and mobile frameworks are easier to learn and understand. In larger organisations with many staff, saving a single day per human resource can amount to a huge cost saving.

#### Risk management.

Any service that is related to legislative compliance carries inherent risk. Whilst asset owners may ultimately be responsible for their assets, when faced with investigation or litigation they will inevitably turn their focus to the service provider. A system such as RedPoint F Gas helps manage that risk by ensuring the strictest possible compliance controls over your work.

# Powerful Key Point Indicators drive and monitor change.

One of the most important practices in any business is making sure that changes you make are achieving the desired result. Generating KPIs in a paper bound system is one of the most frustrating and difficult things to achieve and usually becomes neglected.

By delivering a number of valuable KPIs that can be cross examined and compared, RedPoint F Gas gives you rapid access to your data presented as useable information.

### Such things as:-

- Average job times
- · Number of services completed in one visit
- Staff performance
- Asset and F Gas usage
- Dormant clients
- · Missed service visits
- · Improved CRM

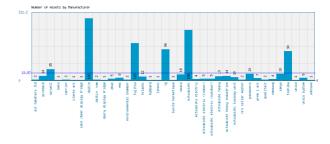
The ability to lay your hands on information is of vital importance if you are to implement a sanitised program of business development.

For example: As R22 is phased out by 2014, being able to identify all the clients in your database who own assets containing R22 would be very advantageous, especially if you were going to pass this information to your CRM team to contact the clients notifying them of the solutions available. Such pro active customer management retains engagement and shows your clients you care. Sales teams are much more likely to receive positive responses from clients who you are so obviously looking out for.

Fig 2.0 R22 containing assets across locations

Location	id: CROWN 0	ONFERENCE ROOMS [0000000	0012]							
ID#	Make	Model	Serial	Cas	Quantity	Type	System / Area	Last test	Next due	IAP Remove
BASEMENT	COMMS ROOM									
0000000090	DAIKIN	EXDSOV1B / CARPARK	2000839	R22	1.6 KG	outdoo	[CROWNS] / BASEMENT COMMS ROOM	September 24, 2013	March 24, 2014	n/a X
CRYSTAL RO	юн									
0000000083	MITSUBISHI	PUH-EYKKUK / FLAT ROOF	50100627	822	5.0 KG	outdoo	[CROWN1] / CRYSTAL ROOM	September 24, 2013	March 24, 2014	n/a X
IVORY ROOF	н									
0000000000	MITSUBISHI	PUH-3YK4UK / FLAT ROOF	50100620	R22	3.7 KG	outdoo	[CROWN2] / IVORY ROOM	September 24, 2013	March 24, 2014	n/a x
MISTRAL RO	ю									
0000000087	MITSUBISHI	PUH-3YK4UK / FLAT ROOF	45800767	R22	3.7 KG	outdoo	[CROWN3] / MISTRAL ROOM	September 24, 2013	March 24, 2014	n/a X
REGENCY R	ООМ									
1800000000	MITSUBISHI	PUH-4YK4UK / FLAT ROOF	50100787	R22	5.0 KG	outdoo	[CROWN] / REGENCY ROOM	September 24, 2013	March 24, 2014	n/a X
Location id: CROWN LABORATORY BUILDING [0000000017]										
IDE	Hake	Model	Serial	Gas	Quantity	Type	System / Area	Last test	Next due	IAP Remove
SOLVENT BA	ASE OFFICE									
0000000763	DAJKIN	Unknown	unknown	R22	1.0	outdoo	[Orown11a] / SOLVENT BASE OFFICE	September 24, 2013	March 24, 2014	n/a x
TINT LAB OF	FFICE									
0000000102	LG	LS-KIBBOYL / CAR PARK WALL	203KA00071	R22	1.3 KG	outdoo	[CROWNSS] / TINT LAB OFFICE	September 24, 2013	March 24, 2014	n/a X
WATER BAS	ED RESEARCH LAB									
000000096	FUUTTSU	AOY12RSGCW / High Roof 2xmen Required	22-08-2011	R22	1.5 KG	outdoo	[CROWN16] / WATER BASED RESEARCH LAB	September 24, 2013	March 24, 2014	n/a X

Fig 3.0 Assets by manufacturer



## The future of HVAC is self aware

Intelligent Asset Profiles (IAPs) are an innovative approach to decreasing response times for reactive maintenance and reducing the number of hours spent on return visits by introducing intelligent predictive maintenance features into existing HVAC assets.

By interfacing RedPoints existing remote monitoring platform with RedPoint F Gas facilities management it is possible for assets to communicate critical observations to intelligent monitoring profiles that can action both reactive and preventive maintenance.

This technology is constantly evolving to allow more and more innovative use of existing telemetry.

## Key features of IAP

- Add new capabilities to existing transducers by interfacing with RedPoints Artificial Intelligence capabilities.
- Filter erroneous data for more reliable readings
- Use captured telemetry to control and action reactive and predictive maintenance
- Integrate selected telemetry across many systems.
- Easily build powerful building monitoring dashboards
- Easily add gauges to mobile apps and dashboards using RedPoints standardised gauge format



Fig 4.0 Example of a typical asset dashboard

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#### What is RedPoint?

RedPoint is a highly configurable set of data and asset record management modules. From invoices, customers, suppliers, PO's, packing asset tracking and workflow management. As a stand alone solution RedPoint performs the majority of tasks that many business owners require.

## What are RPIS (RedPoint Industry Solutions)?

RedPoint Industry Solutions are modules that have been developed to sit on top of RedPoint to customise it to perform niche tasks for a variety of industrial and commercial sectors. Read more about RedPoint Industry Solutions here.

#### Why use RedPoint?

Flexible, Tested, Trusted and Proven! RedPoint is deployed in many sectors and handles many millions of transactions annually in everything from E-Commerce to Property Management, from Remote Building Monitoring to Hazardous Waste Management, On-site safety compliance, insurance and risk assessment and critical temperature monitoring.

#### Current deployment include:

Retail space management and operational compliance including electrical PAT safety, licensing and Public liability across 50 of the UK's most iconic shopping centres.

Remote monitoring and logistics of commercial waste compactors, including determining weight of waste, monitoring hydraulic pressure and compressor current.

Critical temperature monitoring in remote locations around the UK.

F Gas compliance and service management

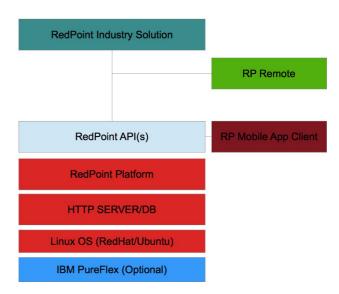


#### RedPoint Software Stack

Typical RedPoint Software Stack showing bespoke industry solution. Optionally RP can be deployed on IBM PureFlex as Virtual Appliance.

RedPoint is the base framework that underpins any solution. Sitting on top of a Linux web based OS on hosted/shared/in house servers. Optionally RedPoint can be deployed as a Virtual Appliance on IBM PureFlex private cloud server.

Your RedPoint integrator can develop or configure your industry solution(RPIS) to deliver your requirements. This may include one or more API's that allow other systems and mobile clients to communicate with RedPoint and your RPIS.



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