



## Systems Integration Solutions

Optimising IT Investment to Improve Business Management



## Introduction

Crown Computing's Systems Integration team has developed an enviable reputation through the provision of data capture and communication solutions to major organisations within the UK and Europe.

Our aim is to improve the acquisition, accuracy and communication of data within organisations and so optimise the information available to help business management to make the most of IT investment.

Organisations that have benefited from this service include Tyco Healthcare, BAE Systems, Vosper Thornycroft and ITN.



### Improving data flow

Within your own organisation you will have systems in place and others planned for the future as part of your overall system strategy. Crown can help you maximise this investment by improving the flow of data from disparate systems and thereby increase the information available to help you manage your business.

Data can be recorded once and used many times in different ways. Using our specialist integration skills, we can gather and populate from and to a wide variety of independent platforms. Whatever the issues, Crown can provide a solution which enables you to make the most of your systems and the data held within them.

### Tailored solutions

Our objective is to provide you with an appropriate solution that meets your current organisational needs and that has the dimension and flexibility to accommodate future requirements. This is why, prior to the development of any solution, we work with you to identify your needs and those of your colleagues.

We talk to you about the plans for your organisation before proposing an appropriate solution that can be implemented in a timely manner. With extensive experience of developing integrated solutions, we can use either standard or tailored solutions, ensuring each project runs to time and budget.

### Improved Processes

Organisations need to disseminate data effectively to provide valuable business information and thus improve processes and maintain control of costs. Crown can provide solutions that are fully open, flexible and scalable.

### Multi-Level Integration

Solutions can be configured to provide the levels of data granularity required. Summary or detailed data can be gathered and transferred to the target host to help managers analyse data in the detail they need.

### Multi-Platform Support

Many organisations deploy a variety of platforms - at a technical, operating system or database level. Integrated solutions can be developed to ensure the smooth flow of data between disparate platforms irrelevant of geographical location. Data communication and integration skills exist for a wide variety of operating system and database platforms including Microsoft® Windows, SQL Server, Unix and Oracle®.

### Multiple Data Sources

Data can be captured from virtually any data source. A wide variety of data capture devices and methodologies can be used to gather information, including Barcode Readers, RFID, Data Tags, Fixed and Mobile Terminals, SFDC Rugged Terminals, Touch Screen Technology, PDAs, Telephony, Network Data Files and others.

We are able to advise on and supply a wide range of data capture devices to suit organisational requirements.

### Automated Solutions

Data integration solutions can be developed to minimise human intervention and automate the flow of information between application systems. At the same time, we ensure that you can maintain control at appropriate points and so manage business processes effectively.



# Systems Integration Solutions

## Target Host Systems

Data captured can be used to populate many host systems such as Payroll, HR, ERP, Manufacturing, Resource Planning and Management, Time Management, Employee Management and ERM solutions.

Integration can be achieved across a wide variety of communication protocols. Full buffering and event logging facilities are included to ensure data is correctly processed as well as providing comprehensive audit facilities.

## Standard Interfaces

A suite of standard interfaces is available for Crown's Open Options and FM&C employee management solutions, which can be used in their existing format or adapted to suit specific requirements.

### HR and Payroll Interfaces

Both Payroll and HR interfaces are designed to work alongside all modern Payroll and HR systems and are therefore suitable for use with systems offered by SAP, Microsoft®, Rebus HR, Northgate, Ceridian Centrefile, Midland, ADP and many others.

### Payroll Interface

The Payroll Interface module will transfer all payment details from Open Options or FM&C to your preferred payroll system in a safe, easy-to-manage way, simplifying the payroll processing cycle.

The system enables you to transfer attendance details without requiring specialist payroll knowledge. This can be a weekly, monthly or fortnightly activity depending on your requirements and multiple payroll systems are supported where necessary.

### HR Interface

The HR Interface module eliminates the need to maintain duplicate databases as Open Options or FM&C can import and export common data to and from all popular Human Resource systems.

Open Options and FM&C provide bi-directional data exchange with Human Resource systems to automatically populate the database with new employee, change of status and leaver details. Typically, it will also pass absence details back to the HR system.

## SAP Certified Integration

Open Options version 5 is fully certified for use with mySAP.com. Using standard, proven SAP integration technology, including iDOCs, Crown's automated gateways facilitate the flow of data into and out of SAP implementations providing full integrity validation and database formatting. Integration suites are available for SAP PP (Production Planning), PM (Plant Maintenance), PS (Projects), HR (Human Resources), Costing and Payroll. Data captured at source can be passed up to SAP to make the information available to your organisation when you need it to provide a complete picture.

## Data Warehouse

Although today's computers are capable of storing huge volumes of historical data, they are not always capable of delivering the graphical and trending analyses required to plan for the future. This is usually because the application databases are designed and structured to support the day-to-day computing processes rather than for high volume information retrieval and presentation.

Crown's Employee Data Warehouse overcomes this problem by restructuring its employee information into a format that is designed specifically for statistical data analysis and to include information from other employee application databases.

### Employee Data Sources

There are typically three sources of employee information located in the three principle application databases, namely Payroll, HR and Time Recording. Providing that the Payroll and HR databases support access through ODBC, information from all of these sources can be selected and included within the Employee Data Warehouse. In addition, data can be acquired from other business systems as required.

### Data Transformation

Before data are transferred into the Warehouse, they are routinely cleaned and reformatted to enable simple and high performance access by the Warehouse data analysis tools. Unnecessary codes and linkages are removed, leaving just clean business information that is both meaningful and correctly structured for high volume storage and analysis.

### Analysis and Presentation

Standard industry OLAP reporting and analysis tools are used to produce any number of user-defined reports, typically including graphical representation of trend and summary data.

Information held within the Employee Data Warehouse can be extracted and stored in Powercube formats that enable dynamic slicing, dicing and automatic drill-down to detailed levels within the selected data extracts. All analyses and reports can be stored for future use, shared between users and distributed to other users in both report and HTML formats.



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