



## RouteOne Product Overview

### Overview

RouteOne automates the process of extracting data from iSeries database and spool files and quickly delivering this information to the end user. This data can be:

- Converted into 27 different formats
- Transferred to iSeries database or to the iSeries IFS
- Delivered to any location on a network
- Delivered to any remote location via FTP
- Emailed to a number of recipients
- Created as an electronic form

Pre-processing options, external scripts, Excel and Access macros, DTS packages, Stored procedures, batch files etc, may all be incorporated using RouteOne's advanced functionality.

PC output formats include Excel and Lotus workbooks, SQL server (All versions), My SQL, Oracle and Access databases, Text files, CSV files, HTML and XML pages, Electronic forms, PDF and Word documents.

### Benefits

**Speed** – The technological architecture that RouteOne employs (low level sockets interface) is the fastest and most robust means of transferring data from the iSeries. Independent benchmarks have identified an average performance improvement of around 250%.

**Reliability and Stability** – RouteOne reliably processes many thousands of different types of extracts every day on over 300 customer sites.

**Versatility** – RouteOne provides an extensive and varied range of features. The comprehensive functionality means that one product can satisfy the majority of data manipulation and extraction requirements with the tasks fully automated.

**Usability** – No programming skills are required to use RouteOne but its rich functionality still enables experienced users to perform sophisticated calculations and operations within their extracts.

**Accessibility** – Data is readily available in user-friendly formats enabling users to make better-informed decisions more quickly.

**Rapid Implementation** – RouteOne is easily installed and can be used immediately with the minimum of set up required.

**Manageability** – RouteOne provides detailed logging information so that it can be effectively monitored and controlled. The interaction between the iSeries and the target system is easily configured and managed through the deployment of an FTP server and the RouteOne client application.

**Automation** – RouteOne requests may be configured to run at any time through the use of a scheduler program such as the IBM scheduler.

**Flexibility** - Requests may be run in a number of different ways:- from the RouteOne menu, from a users menu, incorporated as a command into CL programs, or from within a scheduler.

**Enhance Productivity** – By automating repetitive and time-consuming tasks valuable resources can be released to work on other projects.

**Reduce Costs** – RouteOne can provide significant cost savings, significantly reducing development costs and leading to significant savings in stationery, printing, postage and labour costs.

**Security** – All data can be transferred using secure FTP technology to prevent unauthorized access.

## **Features**

### **Database Extracts:**

RouteOne provides a number of options to help facilitate the process of extracting information from iSeries database files. Including:

#### **Multiple File Selection and Linking Options**

Data can be extracted from a number of logical and/or physical files. A list of available access paths can be displayed and joining files is made easier as RouteOne will suggest the required links. File links are retained so they need not be re specified when the same files are used. Links can be specified when creating a RouteOne definition or as a separate task so that the links are available in advance of creating an extract.

#### **Data Dictionary**

This facility is a repository for metadata, storing information relating to the files and fields used within RouteOne. Field text and attributes are stored and may be changed, date fields may be specified and formatted,

fields removed and virtual fields created. The Data Dictionary is designed to reduce the need to perform the same repetitive processes when creating RouteOne definitions.

### **Data Filtering**

There are two options available to filter the data.

Firstly, fixed record selections are available - these are specified within the definition.

Secondly, runtime parameters can be included in an extract. They can be prompted for when an extract is run (the user enters the parameters required) or they can be passed to the RouteOne command and may be embedded within a CL program.

### **Date and time Conversions and Calculations**

RouteOne caters for all standard date formats and allows for date conversions and calculations to be performed. Date fields may be subtracted from one another or a number of days can be added or subtracted to a date field (including the system date). All fields specified in this format are automatically converted to a true date format. Time calculations are also supported.

### **Result and Conditional Result Fields**

Result and conditional result fields can be created and may be populated with default values or values based on other data calculations. The values within a result field can vary based on the number of conditions applied, ('If Then Else' statements).

### **New Records Only**

RouteOne can be configured to ensure that only new records that have been added to a file since the last extract are downloaded this time.

### **Summarizing**

Data can be summarized to provide maximum, minimum, average and count details.

### **Pivoting the data**

This feature pivots the data so that rows become columns. Data may also be summarized.

## **Multi format files**

Route supports the creation of multi format files, for example Header/Detail/Trailer.

## **Text messaging**

RouteOne can be configured to send text messages to mobile devices.

## **Evoking a User program**

A user program may be called from within a definition, input and output parameters may be passed and received and the results used in the definition.

## **Code Page Conversions**

RouteOne supports conversion from different code pages to cater for different language sets. Double byte character sets are now supported (Version 6.20 upwards).

## **Spool File Features:**

### **Complete Spool Files**

Complete spool files may be transferred into either a PDF or Text format. The PDF format can be tailored, for example to control the font, orientation etc.

### **Extract selected spool file data**

Select specific data from a spool file at line and/or field level. The data may be extracted from anywhere within the spool file, creating individual rows of data to populate an excel spreadsheet, an access database etc. The data may be filtered to select only certain records and additional values may be calculated.

### **Linking to database files**

Data appearing on a spool file can be used to link to database files to extract additional information.

### **Splitting a spool file to create individual documents**

A spool file may be split to create a number of individual documents based on a set of specified, pre-defined criteria. Each document may then be emailed to the relevant end user.

## **Creation of electronic forms**

Data may be extracted from spool files (e.g. Invoices) to merge with a Word template to create a Word document.

## **Spool File Archiving**

A range of spool files may be selected by specifying criteria such as output queue, spool file names or User Id to identify those files to transfer. Additional options include the ability to record the transfer, move the spool file to a different queue and delete the file after the transfer.

## **General Features:**

RouteOne also includes a number of other, more general options including:

### **First row field or text**

Specify that the first row of the created file becomes either the field text or field names or both for easier identification. The field names or text can be user defined.

### **Automatic Emailing**

Each RouteOne request can be configured to automatically email the file produced (can be zipped prior to delivery) or a network shortcut to the file produced to a number of email recipients. Email messages may also be sent containing information relevant to the data extract including; totals, the date transferred, the file name and the total number of records.

### **Multiple Excel Worksheets**

A number of requests may be configured to populate the same Excel workbook, thereby, creating multiple worksheets. These requests may be grouped together to form a procedure and executed with just one command.

### **Flexible Naming Conventions**

Output file names may be fixed or may include parameters. The name of the file, database, table, workbook etc may include a number of variable parameters to aid identification and ensure the file name is unique. These parameters can include, user, date, time, month, week and day or any combination of these values.

### **Automatic Macro, DTS Package or Stored Procedures Execution**

A macro stored within an Excel workbook or within an Access database may be automatically executed once the data transfer has been completed. This can be used, for instance, to format the appearance of the transferred data or to total the values within a column. It is also possible to run DTS packages stored on the SQL Server if, for instance, there is a need to automatically populate another table with selected information.

### **Pre and Post Processing**

RouteOne enables pre and post processing commands or programs to be executed on the iSeries. Additionally, post-processing commands may be issued to run programs on the target PC.

### **Access, Oracle, SQL and MySQL Databases**

RouteOne can create new databases and tables, append data to existing data or replace a table's data with new data.

### **Co-Operative Processing**

This option significantly enhances performance when transferring large amounts of data. The data is transferred via FTP to the target system as a raw data file before it is processed by the client on the target system. Independent benchmark tests have seen data transfer time reduce by over 400% when compared against existing ODBC technologies.