

## APPLICATION

ReadCenter® Data is easy-to-use Windows®-based reading data management software developed specifically for water and gas utilities. As a management tool, ReadCenter Data system is a flexible program that acts as the interface between the meter and the billing software. With its unique design, ReadCenter Data software manages the reading data collected from the Badger Meter Automated Meter Reading (AMR), and Automated Meter Infrastructure (AMI) systems:

- Manual reads from Read-o-Matic® and local read registers
- BadgerTouch® and competitive touch modules
- Badger ORION® CE Mobile and Handheld systems
- Badger ORION CE Gateway Receiver
- Badger GALAXY® Fixed Network systems

## OPERATION

ReadCenter Data reading data management software is a powerful, yet easy-to-use tool that allows utilities to maximize their AMR/AMI system deployment. Built with an SQL database that supports the Badger Meter's ORION CE and GALAXY system offerings, utilities can cost effectively implement the appropriate AMR/AMI technology based on the reading data needs of each end customer with a single software application.

## UTILITY BILLING INTERFACE

ReadCenter Data reading data management software has the flexibility to support multiple billing interface files, including Badger's Standard 'C' File Format and other competitive files. By supporting multiple files, utilities can implement a Badger Meter AMR/AMI solution without disrupting the current utility interface file transfer process.

## CUSTOM CONFIGURATION

The ReadCenter Data reading data management software is a configurable product that is simple to operate. During installation, ReadCenter Data software is configured to meet the specific needs of each utility and only the fields and modules necessary to support the AMR/AMI systems implemented will be displayed, minimizing operator training. Also, user and administrator passwords can be assigned to different users to ensure data management integrity.

## CUSTOM REPORTS

The ReadCenter Data reading data management software has been designed with a custom reports builder that allows utilities to create their own reports from the data field maintained in the ReadCenter SQL database. Custom Reports can be viewed, printed, or saved in a variety of formats for use in word processor, spreadsheet, or database programs.



## AUTOMATED PROCESSING

The ReadCenter Data reading data management software can be configured to provide custom features to support the needs of any size water or gas utility. As an option, automated processing can be enabled allowing certain functions or procedures of the meter reading process to be completed without direct user intervention.

## READING DATA MANAGEMENT

ReadCenter Data reading data management software provides a seamless management tool for reporting all readings on an account by account basis. As reading data is collected (data profile readings, daily fixed network readings, and monthly RF, touch, or manual readings) the data is posted to each account and is accessible to the operator for customer service and reporting purposes.

## SYSTEM REQUIREMENTS

The reading data management software requires a computer with the following specifications to support the AMR/AMI system:

### COMPUTER SPECIFICATIONS

|            |  |
|------------|--|
| Processor: | 1 GHz or higher, 32 bit or 64 bit (x86 or x64) |
| RAM:       | 1 GB or higher available                       |
| Hard Disk: | 120 GB or higher with at least 20 GB available |
| Ports:     | 4 USB Ports available                          |
| Monitor:   | 17 Inch or higher                              |
| Printer:   | Ink Jet or Laser, Networked or Local           |
| Drives:    | DVD-ROM  |

- Windows® 2000 Professional SP4 or higher
- Windows 2003 Server® – Standard or Enterprise SP1 or higher
- Windows 2008 Server - Standard or Enterprise
- Windows Vista® – Business, Ultimate or
- Windows 7® - Professional, Ultimate or Enterprise

1. Windows Vista – Microsoft® recommends support for DirectX® 9 graphics and a minimum of 128 MB of graphics memory. Other Vista requirements may exist. Follow vendor recommendations that exceed this specification.

### DATA SOURCES

- SQL Server 2005 Express will be included with the application.
- SQL Server 2005 Enterprise may be used if already existing. (End User Supported).

### PERFORMANCE AND MULTI-USER CONSIDERATION

- The software can run on a server for multi-user operation, or can be operated from a single PC.
- Twenty concurrent users are supported in a multi-user installation.

### BACKUP CONSIDERATION

A means to back up data must be provided. Options are; the local network, ZIP Drive, Read/Write CDROM or other type of removable media.

### SUPPORT CONSIDERATION

Internet capability for Technical Support WebEx® connection is recommended.

### NETWORK AND STORAGE REQUIREMENTS FOR ORION AND GALAXY GATEWAY FIXED NETWORK READING

- Requires LAN, WAN, WiFi or Cell Network ability.
- A dedicated computer is recommended and must be running at all times.
- A Public Static IP Address is required that allows connection from Gateway Receivers on port 5003.
- Data Storage - 100 bytes of storage are required per read. Example calculations for 35,000 meters read daily are shown in the following table:

| Time      | Storage  |
|-----------|----------|
| 1 Day     | 84 MB    |
| 1 Month   | 2.52 GB  |
| 6 Months  | 15.12 GB |
| 12 Months | 30.24 GB |
| 24 Months | 60.48 GB |

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