# FasBAC for Energy Enterprise Edition

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*FasBAC for Energy - Enterprise Edition* is designed to collect energy data from the Carma Industries METER MANAGER™ system and store it in an enterprise database—making the data available for advanced analysis and long-term archiving.

The Carma Industries METER MANAGER™ system is an electronic energy monitoring and data collection system. By bringing meter data into an enterprise database, you are able to take charge of energy usage.

The METER MANAGER™ system is Measurement Canada-approved for sub-metering and tenant billing.

The *FasBAC for Energy - Enterprise Edition* is an enhanced version of AFDtek's proven *FasBAC for Energy* BACnet interface for the METER MANAGER™ system. FasBAC integrates with the Carma system's data logging features to ensure the reliable collection and storage of data. FasBAC will automatically detect and correct "gaps" in stored data caused by communications drop outs or other interruptions to data collection or storage.

The BACnet interface continues to be available for its traditional role, that of real-time integration of energy meters into a BACnet building management system (BAS). In addition, it provides the capability, through the BAS, to alert

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| Features and Benefits | |
|---|---|
| **Features** | **Benefits** |
| • Provides support for Microsoft SQL and Oracle databases—the choice is made at installation time | • Providing the user with the choice of support for either of the two most commonly used enterprise databases will, in most applications, permit FasBAC to utilize an existing enterprise database server |
| • Uses stored procedures to interact with the enterprise database | • The use of stored procedures isolates FasBAC from the details of the database architecture, enabling the enterprise to store the data in an architecture of their choice |
| • Delivered with pre-configured "empty" SQL and Oracle databases | • FasBAC is ready to go, right out of the box—simply attach a copy of the empty data base to an existing database server |
| • Integrates with the Carma METER MANAGER™ system's data logging features | • Leverages the data storage features of the Carma data gathering panel to ensure reliable delivery of data to the enterprise |
| • Integrates with BACnet building management systems (BAS) | • Enables the building management system to monitor energy usage in real-time and enables real-time monitoring of the integrity of the enterprise data collection through the BMS event management features |
| • Powerful, yet affordable; suitable for any size of facility | • The system is equally suitable for a single site application with a single meter or an enterprise |

## Theory of Operation

1. FasBAC reads energy data from the Carma system and writes the data to the enterprise database.
2. FasBAC verifies data is successfully written to the enterprise database.
3. FasBAC tracks the time stamp of the data last successfully written to the database and compares it to the timestamp of current data. If there is a gap, FasBAC will automatically retrieve older data and fill in the gap.
4. Use of the BACnet interface is optional. The reading and writing of data for the enterprise functions independently of whether the BACnet interface is used.
5. FasBAC for Energy - Enterprise Edition uses both the Windows Application Event Log and the objects of the BACnet interface to record and report the status of communications to the Carma system and the enterprise database.

## Platform Requirements

| Software Platform | Minimum Hardware Platform Resources |
|---|---|
| Windows XP Professional (SP3) or later Windows versions | 2 GHz processor |
| Microsoft SQL 2000 or later  or | 512MB memory |
| Oracle Database 9i or later | 40GB disk space |
|  | Network connectivity |
| FasBAC for Energy software may be installed on: |  |
| • The Carma Meter Manager workstation computer, or |  |
| • If the Carma network does not include a Carma Meter Manager workstation, any computer on the network that is not already a BACnet device |  |