



Utility Software Solutions Inc.

USSSI MDMS

METER DATA MANAGEMENT SYSTEM

AMR Analyze MDMS

USSSI MDMS AMR Analyze software provides a powerful yet economical repository for AMI data complete with Validation and Estimating features. The MDMS system assures the quality of data and fills in missing data. The system provides backup of the AMI data with scheduled scripts so that your valuable data is safe and secure and ready for use to enhance the value of the AMR System for Billing, Customer Service, Operations, and Engineering applications in your utility. The system maintains complete data integrity with all estimates identified and logged. The system maintains a complete historical record including a permanent history of meters that are moved to different transformers/accounts, and meters taken out of service.



GET YOUR HANDS AROUND YOUR AMR DATA

Economical Linux / Web Based

The great news is: It won't cost you an arm and a leg to get your hands around your data. The USSSI AMR Analyze MDMS system is based on modern web server architecture and can make use of Windows servers, or the very inexpensive (almost free), and very stable Linux servers and databases. The system runs efficiently on inexpensive PC server hardware. The USSSI MDMS system is cost effective, stable, and efficient with excellent performance. Client-side workstations access the system with standard browsers such as Internet Explorer or Mozilla which have no cost, no license restrictions, and no expensive dependencies. Even more great news, the system can be accessed via secure connection with security controls either over your WAN or the Internet.

Improve AMR Implementation

AMR Analyze MDMS's Meter Route analyzer eases the initial implementation of an AMR system by pre-processing the CIS billing file. The software separates the AMR meter accounts from the manual meter accounts to provide a revised meter route. After readings are taken, the data is combined providing the proper file for billing. There is no need to manually read your AMR meters until a complete substation or communications path is completed.

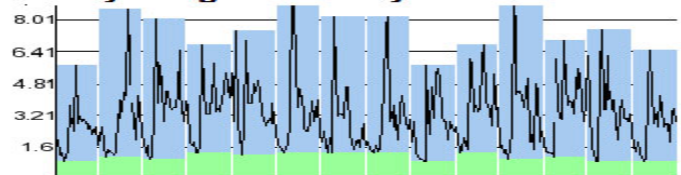
Billing Settlement

Once the meter data is taken manually or from AMR, the data is verified and missing or erroneous data is estimated from the best available data. With a reasonable amount of historical data the estimates would be more than 98% accurate. Original data is kept and estimated data is logged and stored. Standard reports for the billing process include: daily billing route files; process CIS billing files; manual reading report; and the meter-reading error log. The AMR Analyze MDMS system can be extended to provide information to the customer over the web with the **Customer Portal Module**. Additionally, the **Complex Billing Module** provides the utility with the ability to apply complex rate structures such as Time of Use (TOU) and Critical Peak rates. Please refer to the separate brochure for more information on these modules.

Customer Service

AMR Analyze uses AMR data to monitor the power consumption of the customer and by using Statistical Process Control Analysis, can quickly identify customer load changes that may be caused by such things as faulty heat pumps. The utility customer service representative can contact the customer early on and prevent the customer from experiencing a large monthly power bill. The software can also help to spot unauthorized use of power from meter theft, etc. Standard reports include: Hi/Lo reads with statistical process control charts, multi-day bad meter reads, zero usage day with non-zero average, and custom meter groups, etc.

Hourly Usage and Daily Peaks and Lows

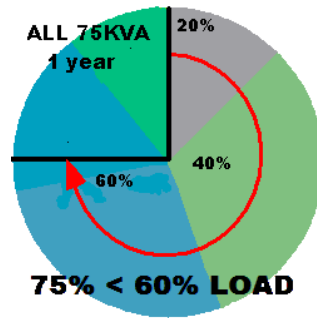


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Engineering

Transformer Loading Studies:

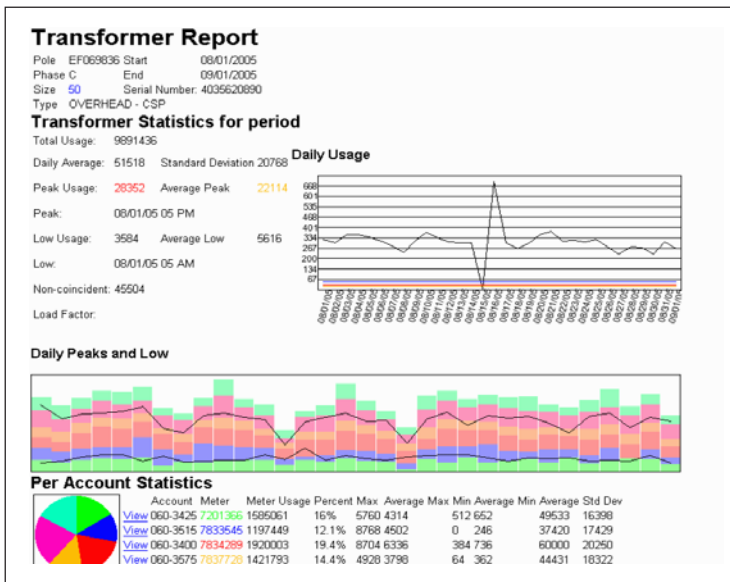
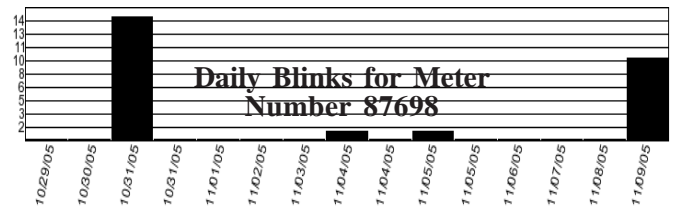
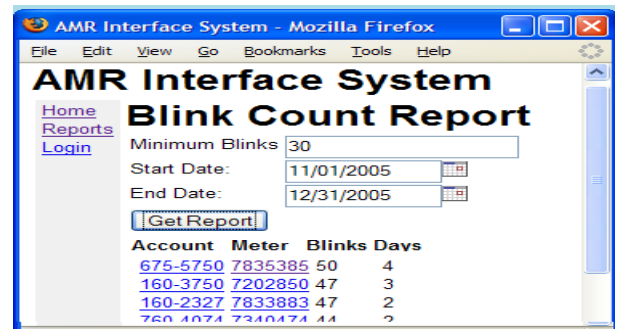
AMR Analyze provides accurate information from hourly or daily meter readings to assist your utility in transformer management. The easy to use browser based software can analyze transformer loads to spot underloaded or overloaded transformers using AMR data from user definable date ranges. Easy to read graphical reports from individual transformers or from selected system sweeps are available. Reports show coincident peaks, non-coincident peaks, and loading over time in various ways including average and standard deviation calculations for selected time periods. Summer and Winter sweep studies of the entire inventory of transformers in the circuit can spot problems and guide maintenance to selectively replace transformers that may become future problems. Loading study data can also assist your utility in developing better guidelines for transformer placement resulting in lowering transformer losses and lowering purchase cost by guiding the use of smaller transformers in more instances. These savings alone can pay for the cost of the AMR Analyze MDMS system.



Operations

Blink Count Studies:

Blink count studies from the AMI data reveal areas of your circuit with higher-than-expected meter blinks. The data is sortable and can be organized by number of blinks and street address so that areas with high blink counts can be spotted. If your Utility has a Mapping/FM or OMS system, "hot spot" regions with potential line problems can be shown graphically on the circuit map. This information can be useful in finding equipment problems and in determining the most effective areas for tree-trimming crews. Customer trouble calls to report blinking can also be verified by checking the customer's account using the web browser interface.



Reports are available for meters, accounts, and transformers.

Tom Woolsey (404) 386-5719
twoolsey@utilitysoftwaresolutions.com

Rob Kersting (423) 231-5929
rkersting@utilitysoftwaresolutions.com

Even More....

The software reports on meters that are not reading properly, so that they can be tested and serviced. This includes a log of meter trouble at accounts with the ability to note the action taken to resolve the trouble. Standard reports include: bad meter reads, meter rating exceeded, substation reports, and voltage reports (if data is available from AMR)

