MDMS Video Link:
http://vimeo.com/26917171
Password: 6354MDMS

Energy Huntsville Forum & Green
University Awards Luncheon
Thursday, August 25th

CALIBRE Energy Management and Army Meter Data Management Systems (MDMS)

Cecil Jones, CALIBRE
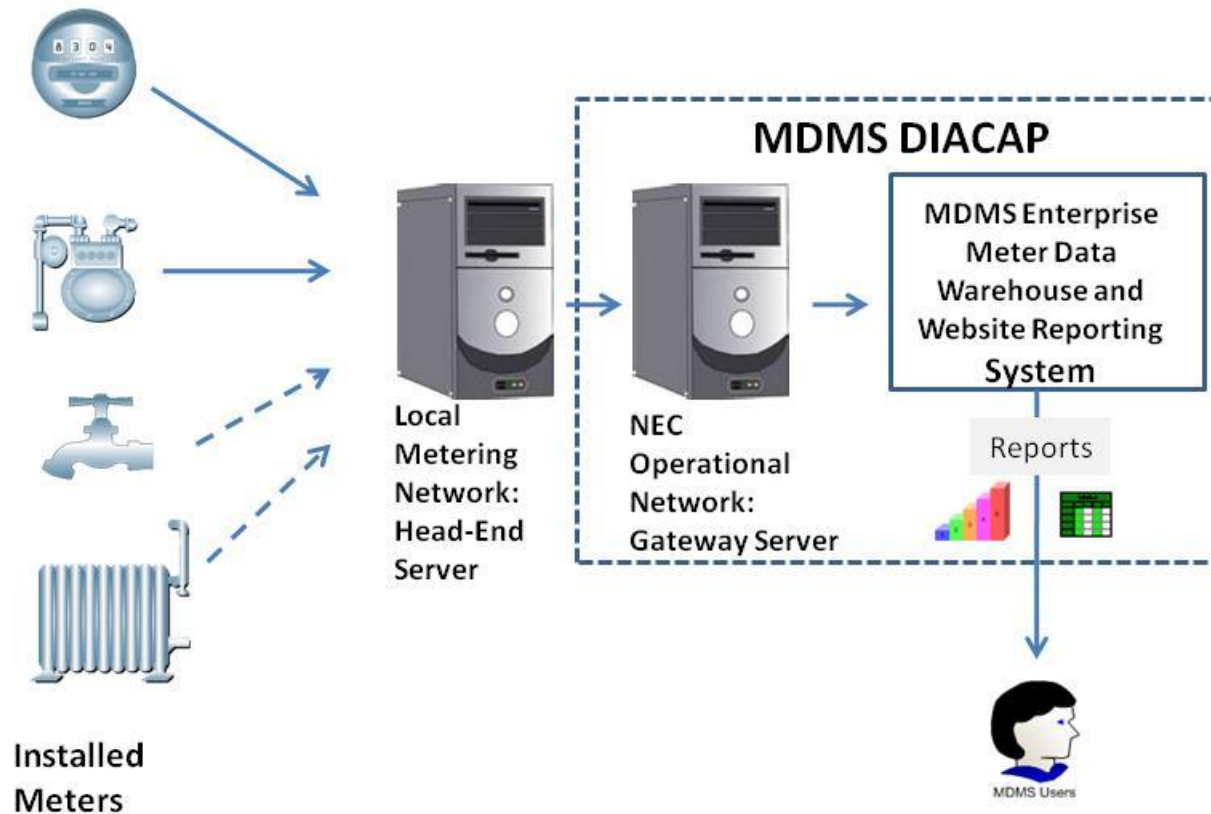
Principal Analyst, Energy

Energy Managers Have It Tough!

MDMS – What is it?

MDMS – The US Army's Meter Data Management System is a secure (DIACAP approved) system for collecting and analyzing metered energy data at installations and presents the information in a graphical (web accessed) Dashboard to enable rapid identification and response to energy related situations.

MDMS Information Flow

MDMS DIACAP

MDMS Enterprise Meter Data Warehouse and Website Reporting System

Local Metering Network: Head-End Server

NEC Operational Network: Gateway Server

Reports

Installed Meters

MDMS Users

Reasons for Army MDMS

- Energy security, sustainability, and efficiency are core areas of interest for the Army

- U.S. Army has a large number of installations

- Many different types of EMCSs with different reporting capabilities

- No centralized energy usage data repository

- No simple way to prepare aggregated reports

- Must meet the requirements of EPAct of 2005

Comprehensive Enterprise Solution

- Comprehensive energy data collection and reporting system

- Secure data transfer between all points

- Not platform or vendor specific

- Ability to pull data from a number of EMCSs

- High performance enterprise data aggregation and reporting

System Approach

- Distributed system with gateway servers hosted at Army installations

- Energy meter data is aggregated and transferred to the Enterprise data warehouse

- Standard and ad hoc reports available to installation and HQ personnel

Reports

- Energy usage
- Weather-normalized energy intensity
- Total energy intensity by commodity
- Combined energy intensity
- Total energy consumption by commodity
- Combined energy consumption

- Reports can be drilled down
- Export to Microsoft Excel
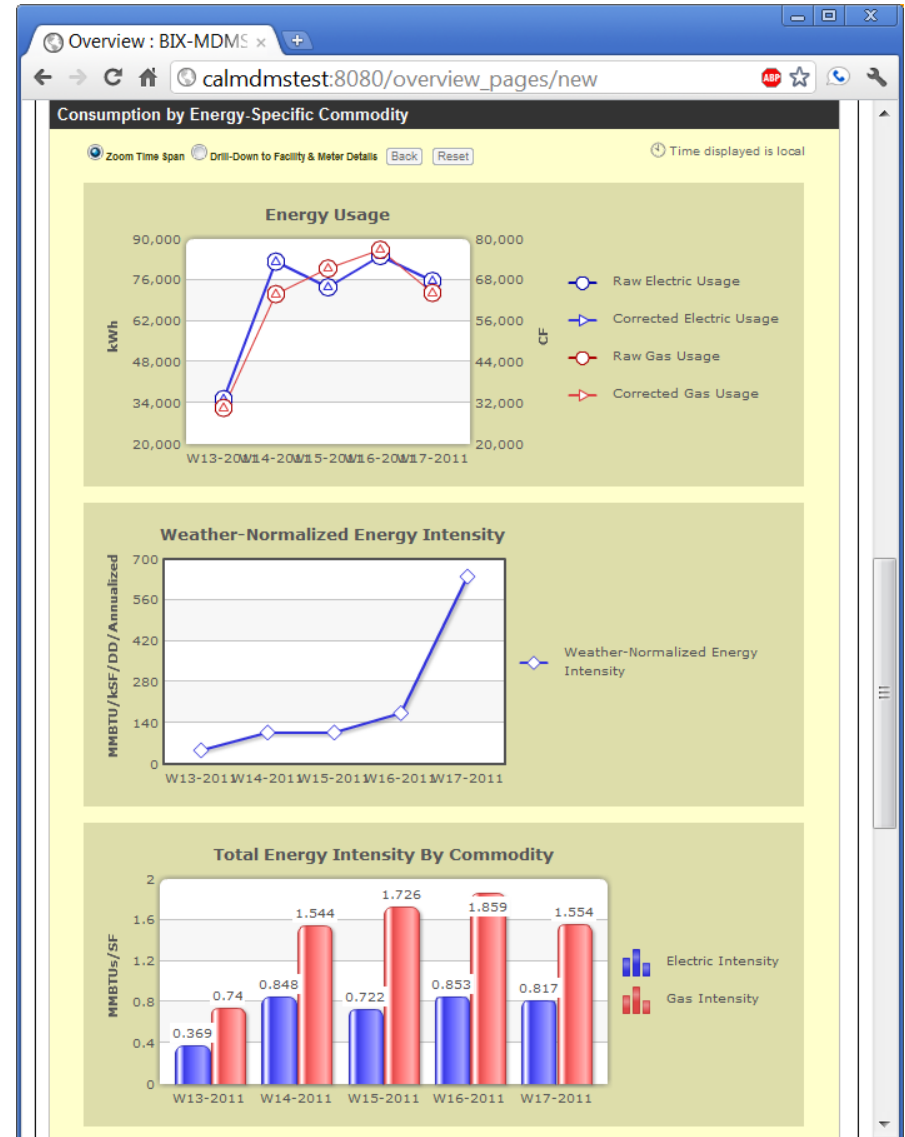
Map View

- Map integration
- Support for:
  - Electric
  - Gas
  - Steam
  - Water
  - Renewables
- Usage intensity

Map View of Facilities with Corresponding Meters

Display meter information in map:

(E) ☑ Electricity	(G) ☑ Gas	(S) ☐ Steam	(W) ☐ Water	(R) ☐ Renewables
(E) ☐ Electrical Intensity	(G) ☐ Gas Intensity	(S) ☐ Steam Intensity	(W) ☐ Water Intensity	(R) ☐ Renewables Intensity

Meter Detail

- Detailed searchable meter information:
  - Name
  - Status
  - Location
  - Hardware
  - Network info
  - History
  - Billing

- Export to Microsoft Excel

Display meter information in table:

E ☑ Electricity G ☑ Gas S ☐ Steam W ☐ Water R ☐ Renewables
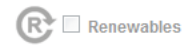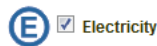
Meter Details

Click on column headings to sort the table

All times displayed are local to the meter reading

Meter ID ⬍	Meter Name ⬍	Commodity Type ⬍	Meter Profile ⬍	View in Map ⬍	Timestamp ⬍	Facility List ⬍	Meter SF ⬍	Raw
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 00:01:7	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 00:16:7	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 00:31:9	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 00:46:7	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 01:01:25	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 01:16:8	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 01:31:7	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 01:46:5	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 02:01:5	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 02:16:5	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 02:31:13	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 02:46:26	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 03:01:8	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 03:16:7	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 03:31:8	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 03:46:6	9100 CSMS/MATES	69,345	44
48	FCA1_JACE01_0065E9100Shark200	E	🔍	➡	04-01-2011 04:01:9	9100 CSMS/MATES	69,345	44

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