MDMS *UPDATE*

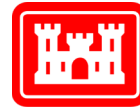*~ METER DATA MANAGEMENT SYSTEM ~*

US Army Corps of Engineers

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FROM THE PROGRAM MANAGER

Welcome to our April - May 2020 issue of the *Meter Data Management System Update (MDMS),* designed to keep you informed on the growth and latest developments of the Meter Data Management System and the Army Metering Program.

Our first article below announces the next four sites working with the MDMS Team on integration of their Utility Provider meter data into the MDMS. You may not need the meter data imported into the MDMS, but its valuable to the Army and many Energy Managers are finding significant value from the information.

The MDMS Outreach Team has been busy hosting anywhere from 14 to 18 webinars a month with additional one-on-one sessions with individual Energy Managers, Resource Efficiency Managers, and/or installations. During these sessions, questions have been posed and we have captured many of those and their corresponding answers in the article on pages 2-4.

Lastly, check out the article at the bottom of page 4 on new UP documentation in the MDMS Library.

As always, our mission is to improve the MDMS experience for end users. Your input is valuable, and we welcome your feedback via the Army Meter Service Desk (AMSD) at: usarmy.coe-huntsville.cehnc.mbx.armymeterhelp@mail.mil
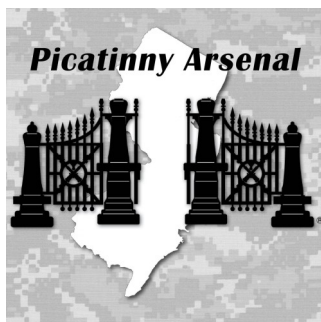
ADDITIONAL UP SITES COMING TO MDMS

Your MDMS Program Team has been working with several installations to integrate their Utility Provider (UP) meter data into MDMS. We started working with Picatinny Arsenal and New Jersey Natural Gas (NJNG) in late December to detail and discuss the Standard Operating Procedure (SOP) and required file and data format for importing Picatinny's gas meter data. After several review iterations on the formatted data files, we have good files coming in for 165 gas meters to MDMS. Picatinny already had the electric utility provided meter data coming into MDMS.

The MDMS Program Team is also in the early phases of working with Joint Base Lewis-McChord, Fort Gordon and USAG Fort Sill to get their UP meter data into the MDMS.

The MDMS Team is available to assist any Army Energy Manager willing to explore the possibility of acquiring meter data from the UP. If you have UP meter data that you would like integrated into MDMS, reach out to the AMSD, log a ticket for assistance and ask for the following two documents: Utility Provider (UP) Data Submission and MDMS v2 Standard UP Meter Data Format.

Q&A FROM RECENT WEBINARS

During recent MDMS Training Webinars, many questions were posed, and answers given. Here we have combined some of the Q&A from those webinars.

Q: I am a new Energy Manager; how can I get copies of these newsletter articles?

A: Send an email to the AMSD at usarmy.coe-huntsville.cehnc.mbx.armymeterhelp@mail.mil indicating that you would like to be added to the MDMS Update newsletter distribution. You can access previously published issues at the USACE MDMS Library: https://www.hnc.usace.army.mil/Library/MDMS-Update-Newsletter/.

Q: When talking about meters and their status, what does unassigned mean?

A: Unassigned meters are those that are reporting into MDMS, and are associated to a site/installation, but do not have an assignment or relationship to a building. This could be correct — the meter could be installed on a substation or something other than a building. However, in many instances an unassigned meter has a building name or number as part of its meter ID string. For some reason, the information provided in the meter ID string could not be correlated to a real property record within the Army's Real Property Inventory. In this case, it is important that you coordinate with your Real Property Office to ascertain the Real Property Asset Unique Identifier (RPAUID) for those unassigned meters. The RPAUID is what MDMS requires to associate each meter with the correct facility data imported from the Army Real Property Inventory database.

Q: Can we just send our list of unassigned meters with the correct buildings to you?

A: Yes, you can send your list of unassigned meters to the AMSD for starters. AMSD will then create a ticket for tracking purposes and then assign to the appropriate MDMS Program Team member for resolution.

Q: How was the meter data captured if it's not assigned to a building?

A: Meters that have been configured to report to MDMS, will continue reporting when they can even if they are not assigned to a building. They will just report to the site. It is important to get these unassigned meters assigned to a building, if applicable, as the usage information is included in Site-level Usage and EUI reports, but the square footage associated with the unassigned building is not.

Q: Are non-reporting meters noted on usage reports?

A: No. Non-reporting means that the meter is not reporting anything to MDMS. Therefore, it's data won't be included on any of the interval or usage reports until it starts reporting again.

Q: Are plug load and base load the same thing?

A: No. In our sessions, we define plug load as the building's design intent for energy loads. When we refer to base load or base line, this is the plug load of the building plus everything else that's been left on.

Q: What does over-ridden mean? What does it do?

A: When we say that a building has been overridden or is in a state of override, we mean the system schedules for that building have been overridden. The building's schedules are no longer at current design conditions. Overrides are a major impact on building energy usage. From our MDMS training session 6: Understanding and troubleshooting system overrides, here are the top ten causes of system schedule overrides:

- HOA in Hand Mode (Hand-Off-Auto Switch)
- Sub-Panel Overrides
- Main Panel Overrides
- Schedule Never Programmed
- Poor or Improper Maintenance
- Broken and Failed Parts
- Linkage Disconnected
- Equipment Incorrectly Installed (Initial CX issue)
- Incorrect Equipment Design (Initial CX issue)
- Incorrect Controller Program (Initial CX issue)

These last three items are similar in that they occur during design and construction. They should be caught during commissioning, but as we know quality of commissioning varies greatly and if a building is over 10 years old then the likelihood that it was commissioned properly is small.

Q: Please define CX, ECM, and MCX.

A: CX is the abbreviation for Commissioning. This refers to the initial commissioning of a building during design/installation. ECM stands for Energy Conservation Measure. This refers to a project *(Continued on pg.3)*

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Q&A FROM RECENT WEBINARS (CONT. FROM PG. 2)

implemented to reduce energy consumption on one or more buildings. MCX is the abbreviation for Monitoring Commissioning. It is the continuous monitoring and ongoing commissioning – active energy management as in real-time energy monitoring – process to reduce energy use and increase cost savings in buildings at every site/installation.

Q: Who is the BOS?
A: BOS refers to the Building Operation Services contractor.

Q: What do you mean by mask, when saying one override can mask all the others?
A: We say that one override, such as a schedule or the fan, may mask, i.e. wipe out, cover up, or hide, all other control sequence savings in a building.

Q: What does degrade mean?
A: This refers to systems returning to schedules being overridden. From our MDMS training session 6: Understanding and troubleshooting system overrides, statistics show that:
- Commercial facilities' schedules will degrade to fully overridden between 48 to 60 months
- Institutions' schedules will degrade to fully overridden between 18 to 24 months

Q: What are REMs?
A: REMs refers to Resource Efficiency Managers. The U.S. Army Engineering and Support Center, Huntsville's Resource Efficiency Manager (REM) program enhances installation energy program effectiveness by identifying projects and practices to reduce energy and water costs through a contracted subject-matter expert called a REM. REMs provide vital expertise to develop site energy plans encompassing projects that achieve sustainable, renewable, secure, resilient energy management. REMs are the "energy boots on the ground" assisting energy managers to increase energy awareness and collecting data for reporting site energy management.

The REM service is value added to energy programs because each REM: 1) Is an energy management subject-matter expert, 2) Provides expertise to identify infrastructure energy improvements to significantly reduce energy and water utilization to meet energy and water security, resilience, and reduction goals, and 3) Provides support for energy construction activity, documentation review, energy awareness, and other energy-related activities. For more information contact the REM Program at CEHNC-REM@usace.army.mil.

Q: I used to have access to MDMS v1 but needed AKO access which required a sponsor. I am non-Army (DLA). Do I need an Army Sponsor and AKO access to get MDMS V2 access?
A: Yes. Since the MDMS has been certified through the DoD Risk Management Framework Process (RMF) and communicates over the Army's secure Non-Classified Internet Protocol Router Network (NIPRNet), the following items are required, to access the MDMS:

- Valid Army Knowledge Online (AKO) ID
- Common Access Card (CAC)
- Computer with a CAC reader and Internet Explorer (IE) 8 or higher web browser

New users can request access by sending an email to the Army Meter Service Desk (AMSD) at usarmy.coe-huntsville.cehnc.mbx.armymeterhelp@mail.mil, or by requesting access via the MDMS landing page https://mdms.army.mil in a web browser. Click **I Accept** to acknowledge use of a U.S. Government (USG) Information System (IS) on the landing page and then on the next page, select **MDMS Access Request (CAC Required)** option, which can be found under the **Sign in using your CAC** button.

Users requiring support can contact the Army Meter Service Desk (AMSD):
- Phone: 256-971-2141, Monday through Friday, 0700 - 1700 Central Time
- Email: usarmy.coe-huntsville.cehnc.mbx.armymeterhelp@mail.mil

Q: How does MDMS get the facility and RPA information?
A: MDMS receives a quarterly file from the Headquarters Installation Information System (HQIIS) program office. HQIIS is the authoritative source system for Army Real Property Assets (RPA) including Installations, Sites, Enclaves/Complexes and Bases. No changes are made to data as it is loaded or after it is populated in HQIIS. If it is accurate in the source system, it is assumed to be accurate in HQIIS. Similarly, the data in HQIIS is ingested by MDMS and is not manipulated after import. If there is an error in the RPA/HQIIS data seen in MDMS, then

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Q&A FROM RECENT WEBINARS (CONT. FROM PG. 3)

please log a help desk ticket with the AMSD. Let us make sure the data was imported correctly to MDMS. If it was imported correctly into MDMS (i.e., MDMS matches HQIIS), then the HQIIS help desk must be contacted to adjudicate and correct errors. Once the data has been corrected in HQIIS, it will be received in a future quarterly MDMS update received from HQIIS. If needed, you can contact the HQIIS Help Desk at: https://rksolutions.atlassian.net/servicedesk/customer/portals.

UPDATES TO MDMS DOCUMENTATION LIBRARY

The UP Meter Data Transfer and Format documents have been added to the MDMS Documentation page in the MDMS Library. These include three specific documents: MDMS Standard Meter Data Format, MDMS Standard Utility Provider Meter Data Format, and UP Data Submission Instructions.

The Documentation page contains a collection of different documentation, and will be updated periodically to reflect new and updated documents. You may download a copy of any of the documents by selecting the blue Download hyperlink to the right of the document of interest.

Documentation

Category	Title	Description	Link
Authorization to Operate (ATO)	Siemens-Desigo	Enterprise Energy Data Reporting System (EEDRS) ATO, Expires 17 Jul 2022	Download
Authorization to Operate (ATO)	Siemens-Apogee	Enterprise Energy Data Reporting System (EEDRS) ATO, Expires 17 Jul 2022	Download
Authorization to Operate (ATO)	Honeywell EBI	Enterprise Energy Data Reporting System (EEDRS) ATO, Expires 17 Jul 2022	Download
Authorization to Operate (ATO)	INET	Enterprise Energy Data Reporting System (EEDRS) ATO, Expires 01 Jul 2022	Download
Authorization to Operate (ATO)	JCI	Enterprise Energy Data Reporting System (EEDRS) ATO, Expires 01 Jul 2022	Download
Authorization to Operate (ATO)	Tridium	Enterprise Energy Data Reporting System (EEDRS) ATO, Expires 01 Jul 2022	Download
Authorization to Operate (ATO)	Army MDMS	MDMS ATO, Expires 21 Jul 2022	Download
Authorization to Operate (ATO)	MDMS Development, Test, and Training System	MDMS DTTS ATO, Expires 23 Jul 2022	Download
Meter Data Format	MDMS Standard Meter Data Format	Defines the standard meter data format for EEDRS/UMCS vendors to integrate data into MDMS	Download
UP Data Transfer	MDMS Standard Utility Provider Meter Data Format	Defines the standard meter data format for Privatized Utilities to integrate data into MDMS	Download
UP Data Transfer	UP Data Submission Instructions	Defines the process for establishing data transfer between UP and the MDMS	Download
User Manuals	MDMS	MDMS User Manual	Download