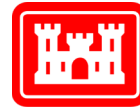




MDMS UPDATE

~ METER DATA MANAGEMENT SYSTEM ~



US Army Corps of Engineers®

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FROM THE PROGRAM MANAGER

Welcome to our February - March 2021 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 briefs the new additions to the MDMS Library. The newly created Cheatsheets page will assist users in finding the appropriate module for their current need/task. The content on the Frequently Asked Questions (FAQs) and Acronyms pages has been migrated and updated from the AMSD website for your convenience.

On pages 2-4 we detail the Interval Usage Data Quality Report, which is invaluable in its ability to assist users in determining the quality of their interval readings and calculated usage. It also shows the number and percentage of those intervals that MDMS had to estimate, with the

ability to drill into each of those estimated intervals.

The MDMS Outreach Team continues an aggressive training schedule with 16 -17 sessions being offered monthly. In Q1FY2021 there were 241 attendees that participated in the webinars and an additional 21 specialized training sessions with various individual sites, installations, regions and commands. Reach out to the AMSD if you would like to schedule a specialized, one-on-one training session with the MDMS Outreach Team.

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



From the Program Manager 1

Additions to the MDMS Library 1

Interval Usage Data Quality Report 2-4

ADDITIONS TO THE MDMS LIBRARY

Library
Videos
Documentation
Newsletters
Presentations/Briefings
Cheatsheets
MDMS FAQs
Acronyms

We have added three new pages to the MDMS Library: Cheatsheets, MDMS FAQs (Frequently Asked Questions), and Acronyms.

The Cheatsheets page contains the MDMS Functional Cheatsheet where users can look up a needed function and see where to find the corresponding module within MDMS, complete with a description of the module.

The MDMS Frequently Asked Questions page contains hyperlinked questions which can be clicked on to be taken directly to the answer to that question.

The Acronyms page contains an extensive list of AMP MDMS acronyms with their descriptions. There is an alphabetized set of hyperlink letters at the top, which when clicked will navigate to the acronyms beginning with that letter.

MDMS Functional Cheatsheet

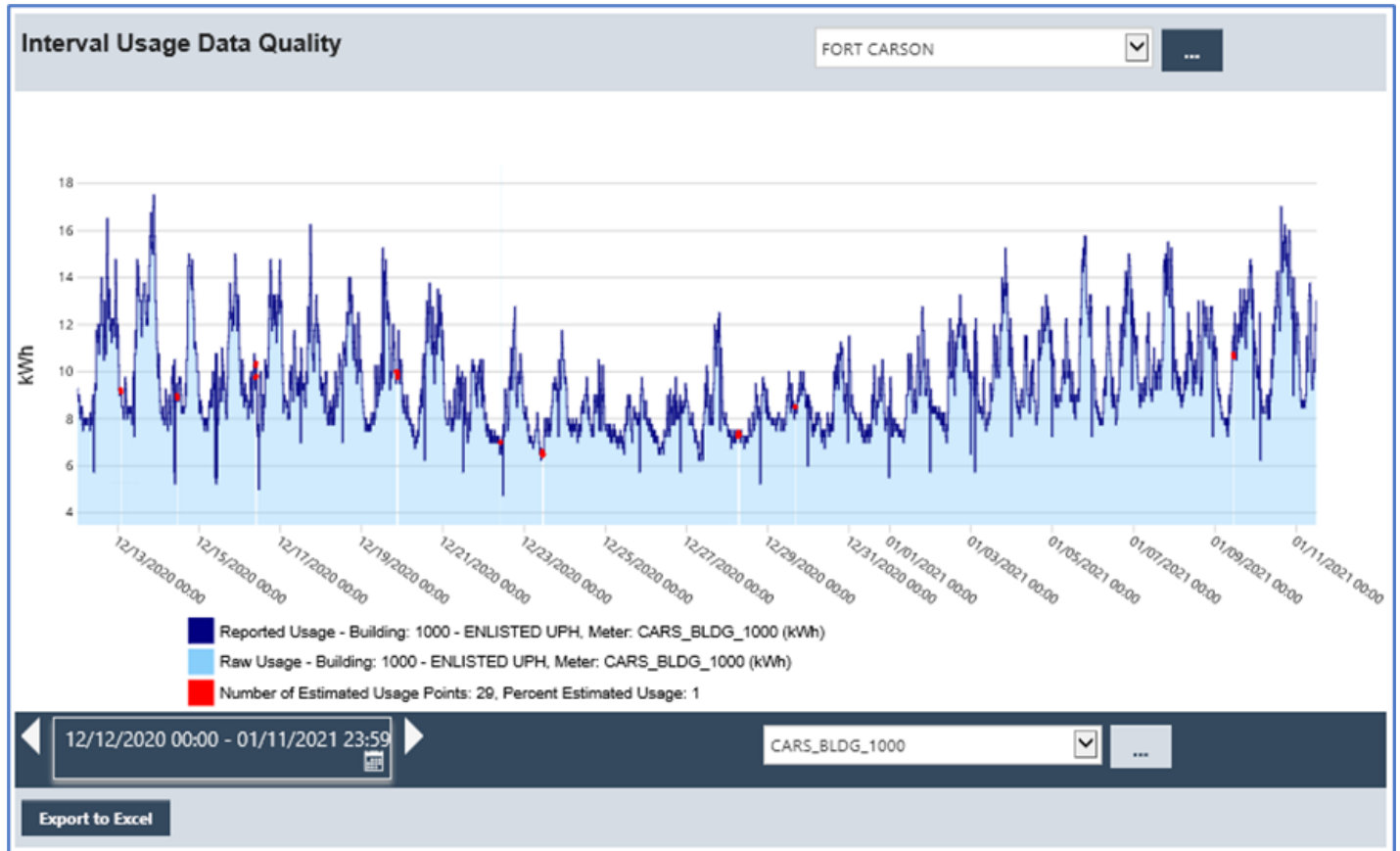
Functional/Tool Needed	Where to find in MDMS	Description
AEWRS Compared to MDMS	Energy Management > AEWRS > AEWRS Compared to MDMS	Generates a tabular comparison of AEWRS values to MDMS values by installation, for the year selected.
AEWRS FYTD Comparison	Energy Management > AEWRS > AEWRS FYTD Comparison	Graphs trends of the previous FYTD to the current FYTD for either cost or consumption, based on the commodity and
Army AEWRS Report	Energy Management > AEWRS > Army AEWRS Report	Generates a tabular report of consumption values for the year selected by installation. The report shows the consumption total consumption and cost, as well as the Real Property Footage in thousands of square feet (KSF) and the KBTU/SF.



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INTERVAL USAGE DATA QUALITY REPORT

The Interval Usage Data Quality Report provides a graphical comparison of reported usage, raw meter usage, and estimated usage points. This report can be found on the Energy Management page under the Usage Details sub-menu. Once launched the report will display the graph for the first meter on the first building for the user's default site populated with meter data for the last 30 days, if available.

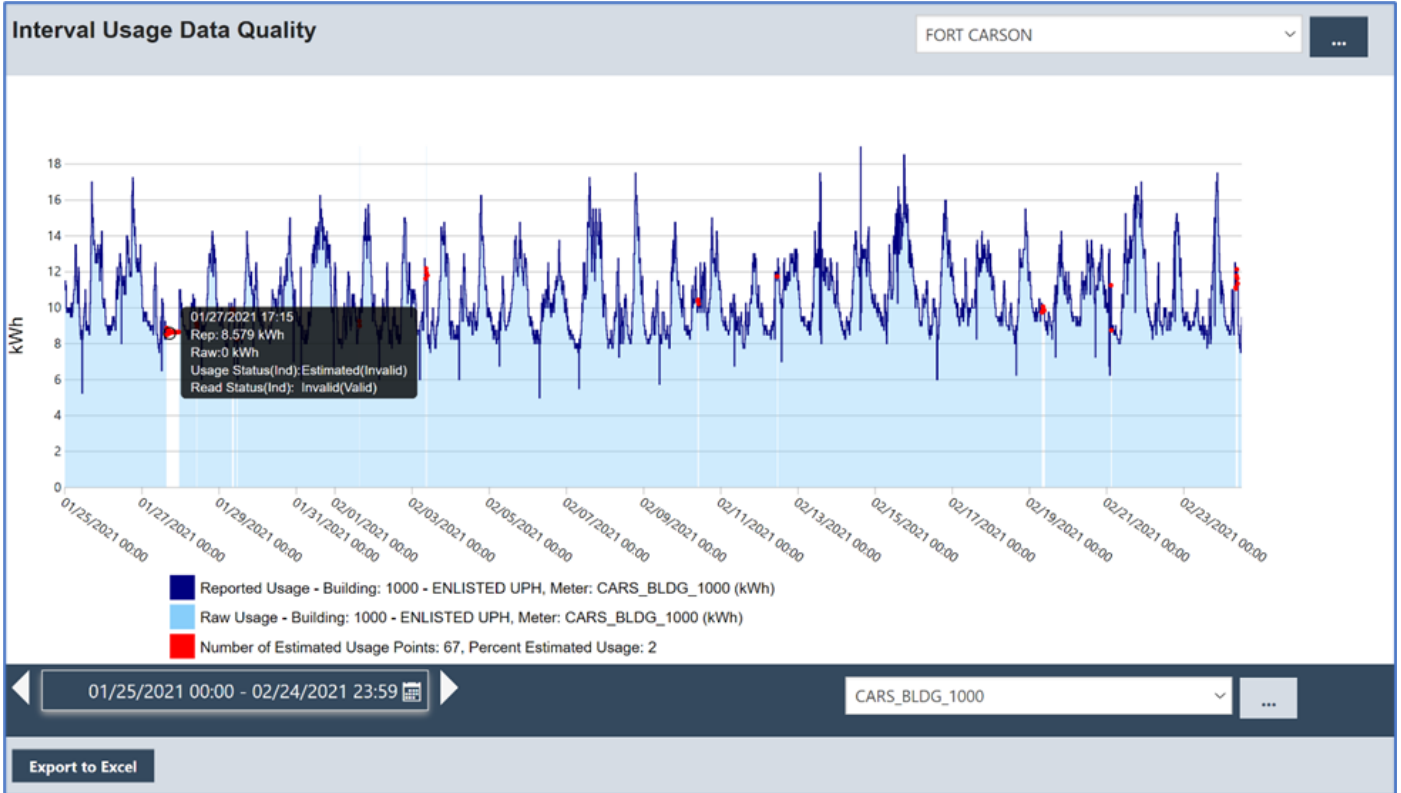


The meter reading information is included to provide further insight because the usage values are calculated from the readings. Also, displayed in red are the estimated usage points, for intervals where the reading reported was 0 kWh or is missing. There is a summary in the legend below the graph of the total number of estimated usage points and the percent of the displayed usage data that the estimated usage represents. A high number of estimated usage points and thus a high percent estimated usage is not good, as it indicates heightened periods of network interruptions for that particular meter. If the percent estimated usage is greater than 35%, the accuracy of the usage data is unreliable and therefore not usable by the Energy Manager. The Energy Manager should select another time period where the percent estimated usage is below 35%, as shown in the screenshot above.

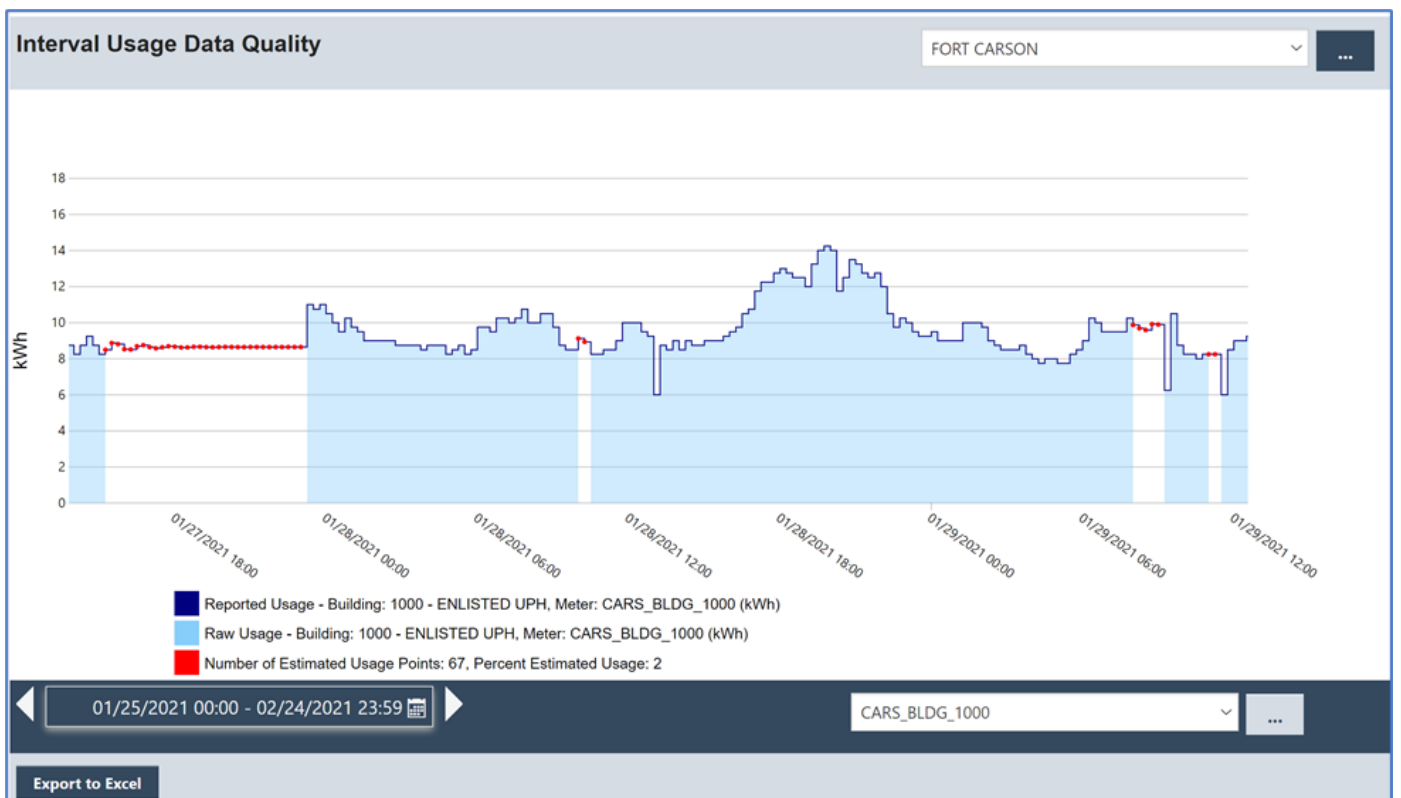
Users may hover the mouse over usage points on the graph to get a pop-up with the date and time, reported kWh, raw kWh, usage status (valid or estimated), and the read status (valid or invalid), as shown in the screenshot below. (Continued on pg. 3)

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INTERVAL USAGE DATA QUALITY REPORT (CONT. FROM PG. 2)







To get a better look at the usage points, the user may zoom in (and out) on the graph using the roller wheel of their mouse. The user can also use the mouse to grab the graph and move it to the left or right. The below screenshot shows the zoomed in details of several of the estimated usage periods. (Continued on pg. 4)



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INTERVAL USAGE DATA QUALITY REPORT (CONT. FROM PG. 3)

To change any of the selection criteria, the user may use the dropdown arrows to the right of the existing site or building to access the picklist for that field. The user may also select the  buttons further to the right of the site and building fields to access the Select Site and Select Building dialog windows, where users can search and select new values by clicking the Select button for the item desired. To change the date range, the user may click the  or  symbol to move backward or forward in 30 day increments or click the  symbol to enter a different start date or select one of the presets. The report will refresh automatically with the new results after each change. The user may export the tabular results of this report via the Export to Excel option, as shown in the example below.

Interval Usage Data Quality							
FORT CARSON							
1000 - ENLISTED UPH							
CARS_BLDG_1000							
Meter Description: null							
Timestamp	Reported Usage	Raw Usage	Units	Usage Status	Usage Indicator	Reading Indicator	Raw Reading
2021-01-25 00:00	11	11	kWh	Valid	Valid	Valid	2947603.25
2021-01-25 00:15	11.5	11.5	kWh	Valid	Valid	Valid	2947614.75
2021-01-25 00:30	11.25	11.25	kWh	Valid	Valid	Valid	2947626
2021-01-25 00:45	11.25	11.25	kWh	Valid	Valid	Valid	2947637.25
2021-01-25 01:00	10	10	kWh	Valid	Valid	Valid	2947647.25
2021-01-25 01:15	9.75	9.75	kWh	Valid	Valid	Valid	2947657
2021-01-25 01:30	10	10	kWh	Valid	Valid	Valid	2947667
2021-01-25 01:45	9.75	9.75	kWh	Valid	Valid	Valid	2947676.75
2021-01-25 02:00	10	10	kWh	Valid	Valid	Valid	2947686.75
2021-01-25 02:15	10	10	kWh	Valid	Valid	Valid	2947696.75
2021-01-25 02:30	9.75	9.75	kWh	Valid	Valid	Valid	2947706.5

