White Paper
July 2013

AMS Suite:

Machinery Health™ Manager v5.6

The AMS Machinery Manager version 5.6 release is the result of user input collected during plant visits and documented by our customer support and marketing teams. This release includes enhancements that will simplify the work for users of every experience level.

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Version 5.6 Features and Enhancements

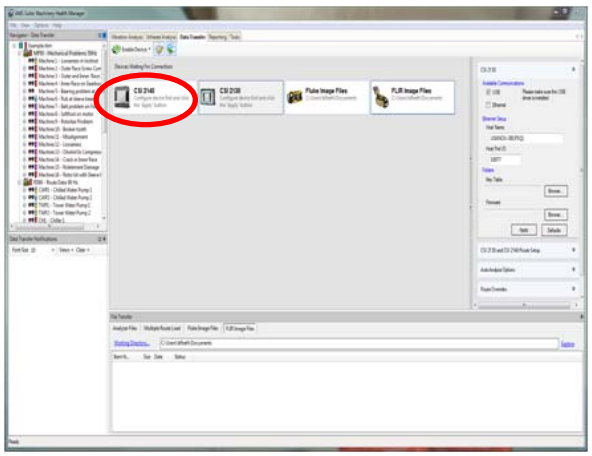
The major focus of the AMS Machinery Manager 5.6 release is the support for the new CSI 2140 Machinery Health Analyzer. In addition, this paper will detail other enhancements including:

- Support for the CSI 9420 Wireless Vibration Transmitter in the Data Import module
- User assistance for restarting an online database and monitoring available free space in the database
- Support for the new Spectro Inc. Q1100 Fluidscan® route-based oil analyzer
- A new web link for submitting product suggestions
- Support of the Collaboration Tool for WAN users
- A new route functionality

Communications for CSI 2140

AMS Machinery Manager v5.6 release updates the Data Transfer application to include support for the new CSI 2140 Machinery Health Analyzer. Users can communicate using the same Data Transfer program that is used to support other CSI analyzers. Data Transfer also incorporates the ability to support:

- Transfer of job data
- Update of CSI 2140 firmware
- Printing route summaries from CSI 2140 to a file



Data Transfer supports CSI 2140 data imports and firmware updates.

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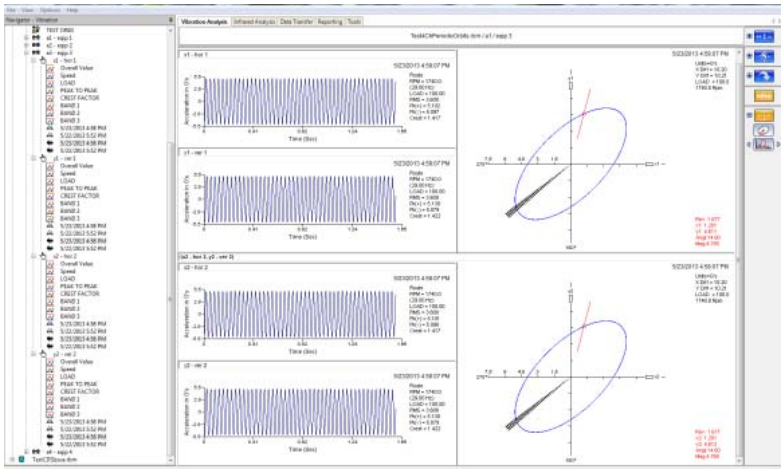
Vibration Analysis Enhancements for CSI 2140

The powerful Vibration Analysis application incorporates data collected from the CSI 2140. Route, cross-channel, orbit, transient, and four-channel data can all be analyzed within the vibration application.

Emerson's CSI 2140 offers simultaneous four-channel data collection – plus phase – that can be imported and analyzed in AMS Machinery Manager.

AMS Machinery Manager now features export of ODS/Modal data for four-channel applications. Data can be easily exported to ME'scope with the click of a button.



CSI 2140 four-channel route data shown here on paired route points.

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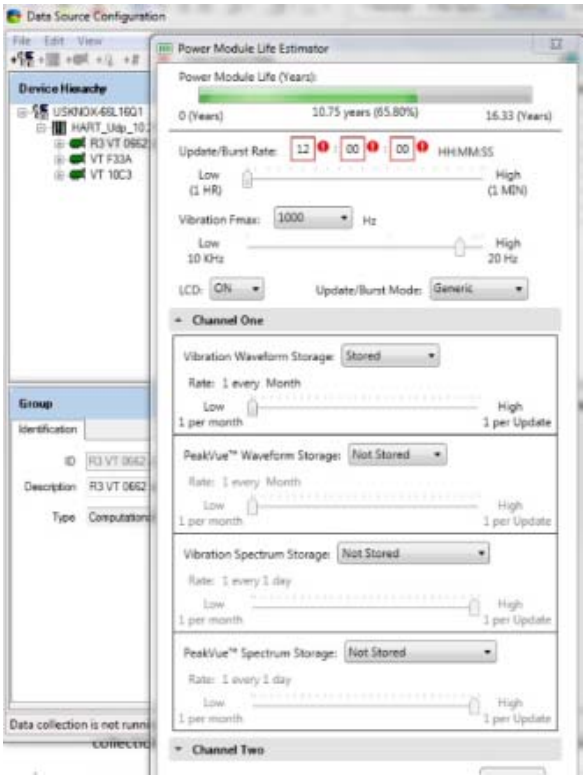
Data Import Advancements for the CSI 9420

The Data Import functionality now allows you to optimize the transmission of high resolution data and power limitations, and includes easy-to-use tools for setup and configuration of a CSI 9420 Wireless Vibration Transmitter.

Using the new Power Module Life Estimator, you can view an indication of the relative Power Module Life based on various configuration options. Slider bars allow testing of various settings to view the impact those settings would have on the Power Module Life.



The CSI 9420 Power Module Life Estimator features a slider bar for testing the impact of changing various settings.

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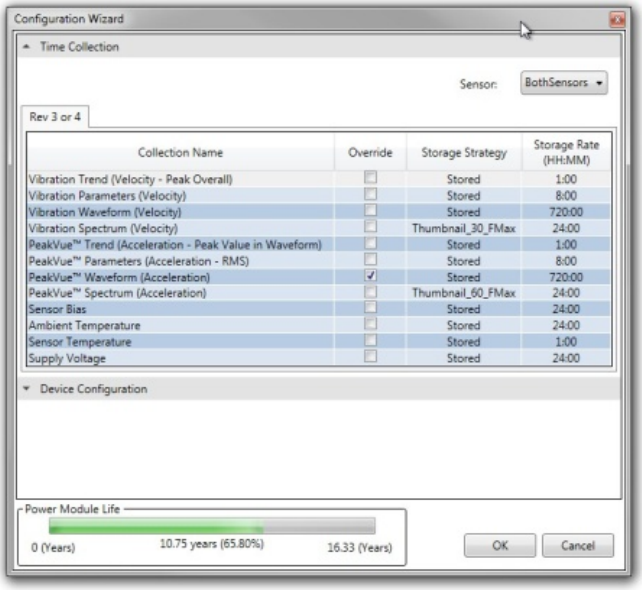
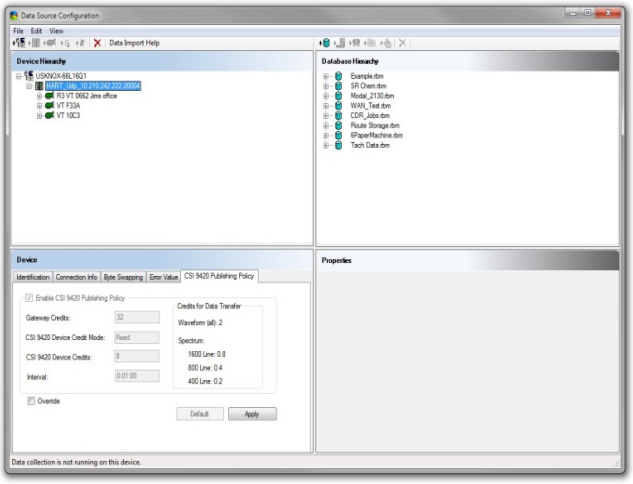
The new Configuration Wizard simplifies and streamlines the setup of a CSI 9420. Users with permission rights can now set burst rates for process data as well as publish rates for higher resolution data such as vibration spectra and waveforms. An estimation of the theoretical Power Module Life is shown in this configuration screen, providing you all the information in one screen necessary for estimating your storage options and strategies.



The Configuration Wizard allows setup of the storage options and rates for the CSI 9420 in a single screen.

The Data Import program now includes a publishing policy which allows the user to control the flow of high resolution data from a collection of CSI 9420 transmitters. This helps ensure that each transmitter is allotted the bandwidth necessary to return high resolution vibration spectra and waveforms as defined in the configuration for that device.



New publishing policy controls flow of high resolution spectra and waveforms from the CSI 9420.

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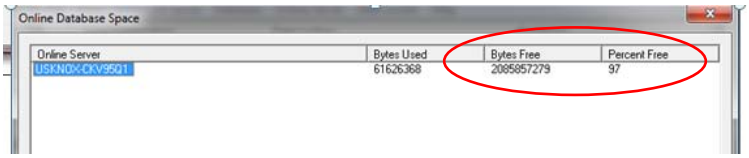
Online Monitoring Enhancements

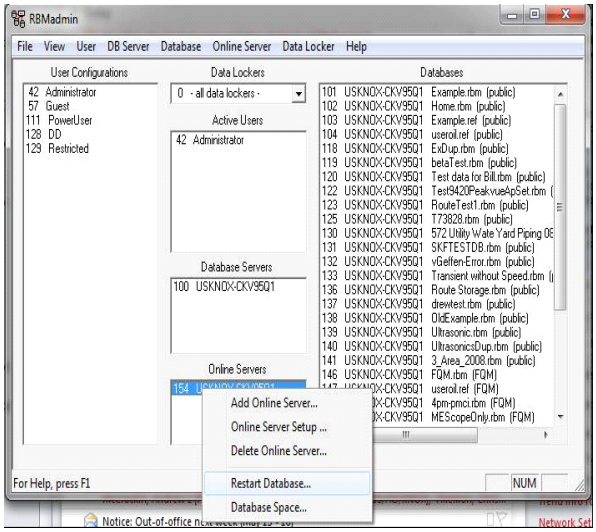
In the AMS Machinery Manager v5.6 release users can monitor the current size of their database and be better prepared to archive data at any time. The current database size can be accessed by clicking on the Database Space option located in RBMadmin under the online server setups. This option shows the available space as both unused bytes and a percentage of free space.

View available space in database as both unused bytes and a percentage of free space.



As more data is collected, the database can grow very large. In previous releases of AMS Machinery Manager, there were multiple steps required to archive the database and reduce the size of the daily “working” database, commonly referred to as restarting the database from a template. In version 5.6, a new menu item allows the user to complete this process with a single click.This feature is accessed from the network administration application – simply right click on the online server and select Restart Database. The software will save all of the setup information, stop the data collection to create a backup of the database, archive the data and then clear that data out of your current working database before restarting the data collection process.

Easy access to your online database to restart your database with a single option click.



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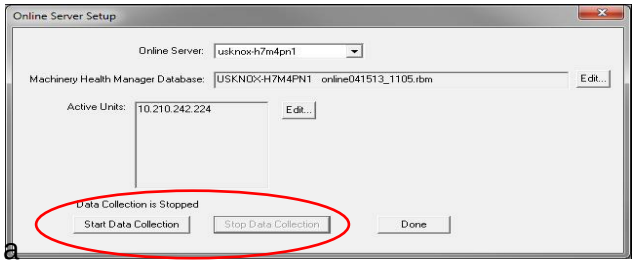
The online data that is archived is copied to another directory using the same database name. You can easily add this archived database back to your selections if you need to review archived data.

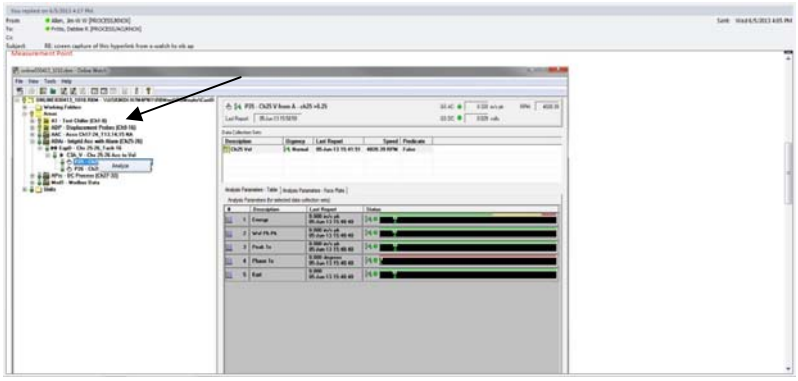
Knowing when data is being collected is easier in AMS Machinery Manager v5.6 – when data is being collected, the Stop Data Collection button is available for selection. When data is not being collected, the Start Data Collection button is available instead.

While the collection of online data is stopped, only the Start Data Collection button can be selected.



The Online Watch application now includes the time-saving ability to launch in context into Vibration Analysis. This allows you view an area, machine or measurement point in Online Watch, but then launch directly into Diagnostic Analysis at the same area, machine or measurement point for further analysis.

Launch directly from Online Watch into the Vibration Analysis Application



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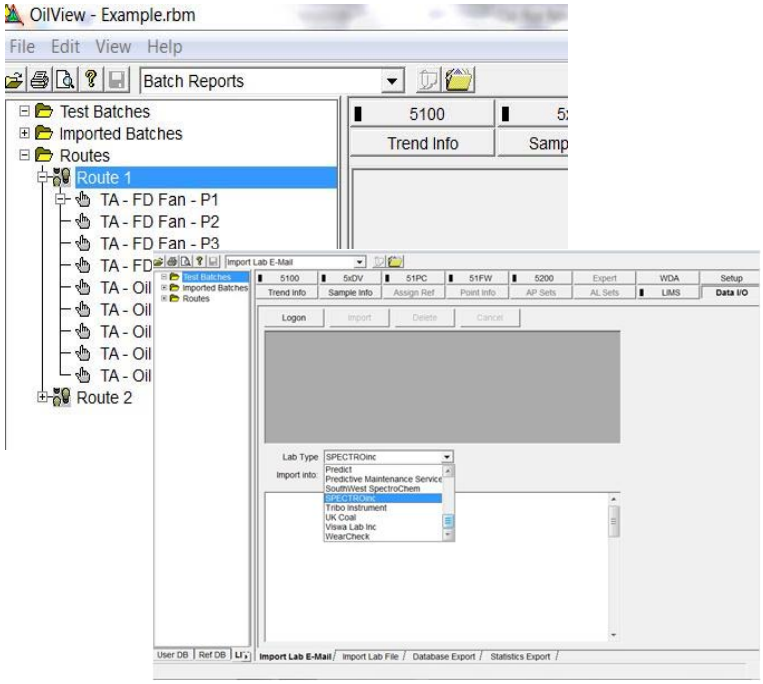
Support for Routes from Spectro Q1100 FluidScan®

AMS Machinery Manager v5.6 supports route data from the new Spectro Inc. Q1100 FluidScan, the first route-based, handheld oil analyzer available on the market.

The Q1100 FluidScan performs infrared spectroscopy, similar to an expensive lab analyzer. It requires only two drops of oil to measure oil chemistry and water contamination.

OilView™ LIMS, the oil analysis module within AMS Machinery Manager, allows you to right click on the database hierarchy to create an oil route, and simply copy the route to a USB drive and plug into the analyzer. After collecting data, simply use the USB to import data directly back to the software.

Create oil routes that easily download to the Q1100 FluidScan. Upload collected data back to AMS Machinery Manager using the same USB drive.



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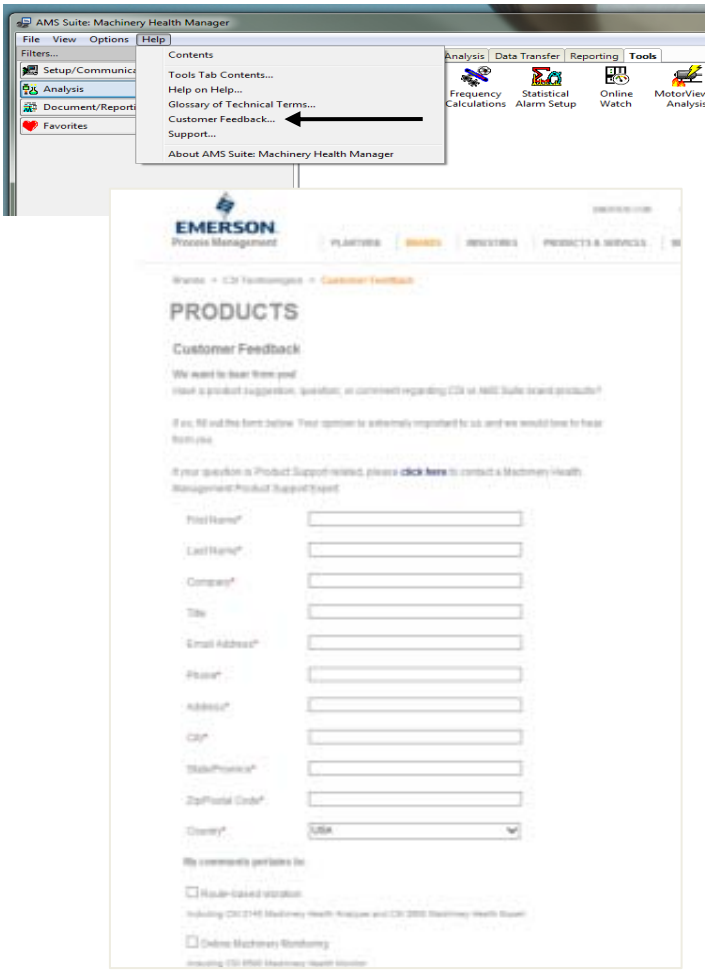
Link to Product Suggestion Form on Web

Emerson incorporates user feedback as part of the on-going technology development process. To faciliate that communication, AMS Machinery Manager v5.6 includes a direct link from the software to the product suggestion form on the web. To access the form, go to the Help option under the Tools menu and select Customer Feedback. This will launch your web browser and take you directly to the web form.

To submit a product suggestion, click on the Customer Feedback link under Help, and complete the form fields provided.



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Other Enhancements

Collaboration Tool Available for WAN Applications
The Collaboration Tool allows easy communication and file sharing between LAN and WAN network users. Once installed, it remains open as a docked window on the right side of the AMS Machinery Manager application. The window displays users currently logged into the software and any current conversations between users. A user logged in can participate in conversation or send/receive messages regarding problem assets. Vibration plots and infrared thermography images can be exchanged between users, allowing for a quick second opinion on analysis. Annotations noted on the plots are included. Simply drag-and-drop the image to the conversation area and select Send.

Route Functionality
The route functionality now includes the ability to move multiple measurement points at the same time and within the same asset with a simple drag-and-drop step.

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