Improve reliability by communicating and managing asset health.

AMS ARES™ Asset Management Platform
Share asset health information from everywhere in the plant to anywhere you are.
People, time, and data. Too few resources for too much information.

You face these obstacles every day. To meet production goals, you first have to manage the assets that feed production. To do that, you need timely, accurate information on the health of those assets. But limited resources leave some assets unmonitored. Technology investments can help fill that gap, but leave you with too much data and no ability to focus on the potential troublemakers. In a plant of 4000 assets, you could easily have 2000 alerts a day due to equipment anomalies – how do you know which ones are critical and which ones can wait?

Finding the right balance can seem impossible. If you are going to increase availability of your assets, you have to find a new solution.

Production capacity is lost to as much as 5% every year as a result of unplanned shutdowns.

Technical professionals may be spending as much as 60 percent of their time managing data before they are able to focus on the more critical, “value-added” work such as analysis and decision-making.

It takes an average of six to seven years to develop new employees into autonomous petrotechnical professionals who can make non-standard, original technical decisions.

What if you had all the data from your assets and could quickly find and focus on the issues that impact asset availability? What if you could share the right information with the right people at the right time?
The AMS ARES Platform delivers real-time information anywhere in your world.

Before you can get control of your assets, you have to get control of your data. If the tools you use to acquire and manage that data interact on a sophisticated but easy-to-use common platform, you can reduce those 2000 alerts down to the critical few that actually need your attention.

Emerson’s AMS ARES Platform collects asset data from field-based wired and wireless sensors and delivers information on only the most critical situations, enabling you to make well-informed decisions to maintain availability. The AMS ARES Platform utilizes modern communication tools to deliver alerts to both traditional desktop PCs and laptops as well as the tablets and smart phones available outside the office or plant. Remote accessibility to smart alerts in a secure environment means operators and maintenance personnel alike are on top of the performance of critical production assets at all times.

Manage your priorities instead of chasing the unexpected.

When you are drowning in data, you need a way to prioritize your assets and their performance so you can focus on the real troublemakers. The AMS ARES Platform acts as your personal time manager – culling through mountains of data to find the important information and put it in your hand. Now you can point your limited resources in the right direction.

Make the right call at exactly the right time.

When you aren’t able to accurately predict equipment failures, you lose profits, production, even confidence in your maintenance program. When you have insight into the production assets in your facility, you can make the real-time, informed decisions necessary to maximize availability and reduce unexpected interruptions. The AMS ARES Platform alerts you to those situations that need your attention so you can take charge.

Alert the right people before trouble strikes.

If you can’t easily share information with your team, developing problems can go unresolved. You need to keep the right people informed, especially when a situation is developing quickly. The AMS ARES Platform delivers alerts using the Asset View mobile app, so your team can collaborate on the actions necessary to avoid downtime in the plant.
Holistic, cyber-secure view of assets

Secure and flexible architecture allows installation on different layers of your network without compromising security.

The asset-centric approach vs technology approach provides a familiar, holistic view of plant assets.

Make better decisions from a clearer picture

Incorporate powerful software and interface modules to expand your reliability program to include more assets and technologies.

Integration of third-party predictive technologies leads to a more complete picture of machinery health.

Communicate with clarity

Responsibility determines information access so each person sees only applicable data.

Alerts on mobile devices keeps everyone connected in real time.

Improve reliability from anywhere, anytime, with more efficient asset management.

At any given time, there is something going on in your assets that can impact whether or not your plant achieves production goals. And the person who needs to know what is happening is not onsite – in fact, they may always work from a different location. With the AMS ARES Platform, the information everyone needs is available anywhere they have internet access. Advanced, accurate assessments of developing problems can be determined. Actions can be taken immediately – or when it is convenient – based on the problem severity. With the AMS ARES Platform, you’ll move easily from data to information to actions that improve your plant reliability.

What’s your challenge?

Technical professionals may be spending as much as 60 percent of their time managing data before they are able to focus on the more critical, “value-added” work such as analysis and decision-making.

“Connecting the dots,” Exploration & Production, December 2006.

What’s your opportunity?

With the AMS ARES Platform, there is a measurable shift away from managing data to acting on information. Greater visibility to more assets in the plant doesn’t have to mean more data to sift through – the Asset View mobile app focuses your attention on the assets that require it most.

60% DATA

It takes an average of six to seven years to develop new employees into autonomous technical professionals.
Asset View delivers you the exact information you need exactly when you need it.

Asset View is the AMS ARES Platform messaging application used on both PC/laptop applications and mobile device applications. Both environments include identical KPI dashboards and familiar user interface elements, making the transition between mobile and desktop views easy and intuitive.

While Asset View on your mobile device alerts you to developing problems, Asset View on your desktop allows drill down on individual alerts for more details and launch powerful software applications for asset health diagnostics.

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Collaborative asset management

Manage Information from the field

Update Everyone in relevant time

Personalized view of poor performing assets

Asset View enables better collaborative asset management by enabling users to create messages based on observations and analysis from the field. Users can also attach pictures to the messages and archive them as part of the stored asset health information.

Each user can see standard KPIs for their target assets on their dashboard including the number of unread asset messages, flagged assets, unhealthy assets or assets in the watch list. This enables the user to easily navigate to relevant sections of the asset view for further action.

Open architecture delivers more information

See asset health as part of the business

From Asset View users can easily navigate to applications such as AMS Machine Works or AMS Device Manager for more information that can lead to scheduled maintenance.

The AMS ARES Platform makes use of state-of-the-art OPC UA, allowing asset health dashboards to become part of the plant’s business intelligence tools and reports.

Easy navigation to more information

Move quickly from viewing to planning

Receive only the information you need now

Users can use the Asset View spam settings to define how many and what types of alerts they receive. No more constant alerting you to non-critical information or situations that can wait until later for further analysis.

Eliminate spam alerts

See asset health as part of the business

The AMS ARES Platform makes use of state-of-the-art OPC UA, allowing asset health dashboards to become part of the plant’s business intelligence tools and reports.
Define assets and responsibilities quickly using Asset Explorer.

Asset Explorer automatically discovers all the assets connected to your network. Within minutes of getting started, you’ll be able to look at the health of your installation on your PC or preferred mobile device.

And more than a traditional location-based asset management program, Asset Explorer allows assets to be assigned to the various roles and responsibilities within your plant.

Additional options for advanced users include:
- Defining the community by assigning roles per asset class or site location.
- Creating composite assets from the individual primary assets discovered. For example, a pump may consist of a vibration, chassis temperature, and acoustic transmitters.
- Defining site turnarounds, allowing users to ignore specific devices that are already scheduled to be fixed during the outage.
- Deliver summary results to personnel with cross-asset functionality, such as safety, custody transfer, and environmental.
Change the way you look at asset health with Emerson’s AMS ARES Asset Management Platform.

Learn more about Emerson’s ARES.

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