

CREATING A CLEANER, SAFER, HEALTHIER WORLD.

INNOVATION




iris[®]

IRIS[®] ASSET MANAGER

Intelligent Insights

POWERFUL FEATURES FOR DYNAMIC FLEET MANAGEMENT

Key Performance Indicators	
IRIS® Telemetry Performance Snapshot	IRIS® Service Reporter* Visibility of Fleet Performance, Maintenance Spend and Tennant Service Performance
<ul style="list-style-type: none"> Machine Usage: Maximize productivity and ensure operational and cleaning compliance by tracking daily usage. ec-H2O™ Usage**: Realize the benefits of your sustainability and productivity investment by ensuring optimal usage of ec-H2O™ and ec-H2O NanoClean® technology. Machine Location: Minimize the cost of lost assets with daily location reports. Battery Metrics: See battery charging behavior to extend battery life.*** 	<ul style="list-style-type: none"> Comprehensive Maintenance Spend Tracking: Review misuse and abuse, breakdown and planned maintenance spend information by region, customer, site, model, machine and time. Misuse and Abuse Spend Benchmarking: See how your misuse and abuse spend compares against similar users. Uptime: See how consistently machines are available when needed. Response Time: See how quickly Tennant service professionals are responding to service requests. On Time: At-a-glance view of how consistently Tennant service meets response time goals.

Push Reports & Critical Alerts
<ul style="list-style-type: none"> Get quicker notification of potential fleet issues. Machine Relocated: Receive an alert if a machine moves more than the selected distance from its previously reported location. No Machine Usage: Receive an alert if a machine is not used. No ec-H2O™ Usage**: Receive an alert if an ec-H2O™ or ec-H2O NanoClean® technology is not used. Battery Charging: Receive an alert if battery is not charged, opportunity charging occurs, or if Smart-Fill™ automated battery watering reservoir requires filling.**** Excessive Misuse and Abuse Spend: Receive an alert if misuse and abuse spend is excessive. Breakdowns Trending Upwards: Receive an alert if the frequency of breakdowns is increasing.

Putting Your Most Critical Data at Your Fingertips
The IRIS® dashboard is seamlessly accessed through the My Tennant portal, displaying clear charts and graphs to help you raise the bar on fleet performance.

- Secure anytime, anywhere access
- Mobile and Tablet compatible
- Simple graphics clearly display key metrics
- Customizable layout highlights the information you need most
- Push reports sent to key decision makers for instant review



*Service Reporter data available only on machines serviced by Tennant.

** ec-H2O™ or ec-H2O NanoClean® technology is available on select models only.

*** Battery metrics are available on select models only.

**** Smart-Fill™ is available on select Tennant models.

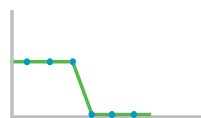
ARE YOU SEEING THE FULL PICTURE OF YOUR CLEANING OPERATIONS?

Managing your fleet comes with the challenge of monitoring many machines across multiple sites. IRIS® Asset Manager delivers key performance metrics, empowering you with intelligent insights to optimize fleet performance and reduce cost-to-clean.

SOLVE YOUR CLEANING OPERATION CHALLENGES

ARE WE MEETING CLEANING REQUIREMENTS?

Daily and average machine usage data gives you “proof-of-performance” to help ensure you are meeting your cleaning requirements by helping to maximize uptime and equipment life.



ALERT: No machine usage



HOW CAN I “RIGHT-SIZE” MY FLEET & ENSURE OPTIMIZED DEPLOYMENT?

With a clear look at machine usage across sites, you have a clear picture of your true fleet needs. You can identify under or over-utilized equipment — and re-deploy to optimize operational efficiency.

HOW CAN WE EXTEND EQUIPMENT LIFE AND REDUCE MAINTENANCE COSTS?

Examine maintenance spend data to identify sites and machines with high levels of unplanned maintenance. Misuse and abuse maintenance may signal the need for added operator training, while frequent breakdown maintenance may signal the need to replace aging equipment.

IS MY SITE AS PRODUCTIVE AS OTHER SITES?

Complete visibility into machine usage across sites lets you create productivity benchmarks — and identify your high- and low-performing sites.

FIELD TESTED TECHNOLOGY + CONTINUED INNOVATION: A PROTECTED INVESTMENT

Patented IRIS® technology gives you the confidence of years of field-tested experience and the promise of continued innovation — more robust monitoring, greater operational improvement, and integration with exciting new Tennant offerings.

HOW CAN WE IMPROVE PRODUCTIVITY?

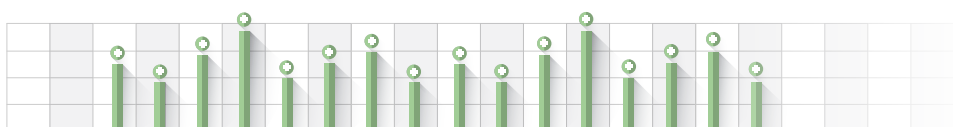
Comparing machine usage data to identify your under-performing sites gives you the opportunity to implement best practices and provide targeted operator training to boost productivity at all sites.

HOW CAN WE CONTROL BATTERY COSTS?

Reduce costs to clean with battery charging alerts that help you identify charging behaviors that may negatively impact battery life. Optimise battery maintenance to extend battery life, reduce machine downtime and reduce the high costs of battery replacement.

WHERE CAN WE IMPROVE HEALTH & SAFETY?

Visibility to the usage of ec-H2O™ and ec-H2O NanoClean® technology ensures you are maximising the health and safety benefits of these innovative cleaning technologies.



IS MY SERVICE PROVIDER DELIVERING CONSISTENT VALUE?

Proof-of-performance data that shows that Tennant service professionals are consistently servicing machines in the designated timeframe and delivering value by helping to maximise uptime and equipment life.

WHERE ARE WE LOSING MONEY ON LOST ASSETS?

Lost and stolen assets can add up to big costs. Machine location data helps you quickly identify — and locate — missing equipment.

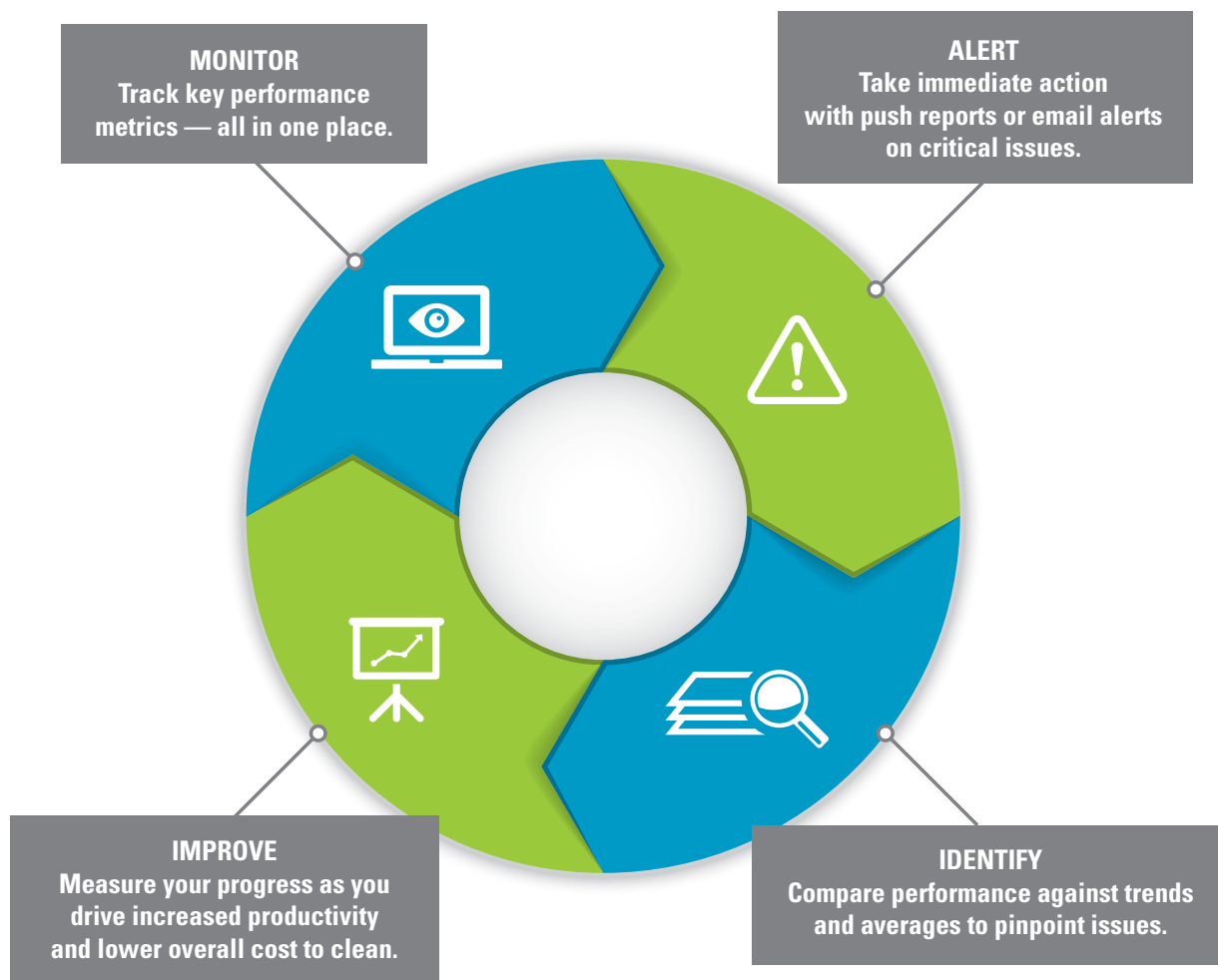
HOW CAN I TAKE ACTION ON CRITICAL ISSUES — FASTER?

Push reports put critical information at your fingertips instantly, empowering better real-time decision-making. Critical email alerts show you potential fleet issues — from machine downtime to operator misuse to stolen equipment — so you can take immediate action.

HOW CAN I LEVERAGE FLEET DATA TO GROW MY BUSINESS?

IRIS® can help drive consistent compliance to cleaning standards and requirements, which can help attract and retain customers.

IRIS® IMPROVEMENT CYCLE



TAKE CONTROL OF YOUR FLEET PERFORMANCE

Take Action on Critical Issues Faster: Push reports and critical alerts show your most important data, so you can take immediate action on potential fleet issues.

Ensure Cleaning Consistency: Track machine usage and compare side-by-side usage for your entire fleet to drive consistent cleaning performance that meets all cleaning requirements.

Increase Productivity: Identify underperforming sites to provide additional training and implement best practices. Ensure optimal battery maintenance and extend battery life to minimize machine downtime.

Optimize Fleet Deployment: See your true usage needs to “right-size” your fleet.

Lower Cost to Clean: Optimise fleet deployment, increase productivity, maximise battery life and minimise battery replacement and maintenance costs, lowering your overall cost to clean across your entire fleet.



CHANGING HOW THE WORLD CLEANS

With a vision to become a global leader in sustainable cleaning innovation that empowers our customers to create a cleaner, safer and healthier world, Tennant creates solutions that are changing the way the world cleans. Tennant products include equipment used to maintain indoor and outdoor surfaces, as well as Tennant *True*® financing solutions, equipment parts, service and maintenance to help ensure superior cleaning performance from your Tennant machines.

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Take greater control of your cleaning operations today.

For additional information on IRIS® Asset Manager,
email contactus@tennantco.com

<http://au.tennantco.com/apac-en/equipment/innovations/innovations/iris>

IRIS Brochure ANZ 6/19

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