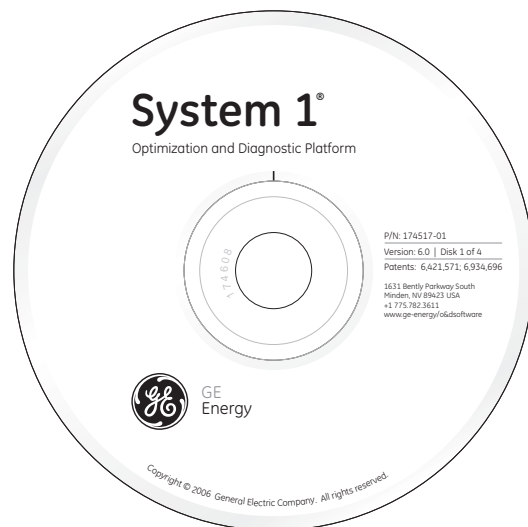


System 1® Software Version 6.0

More reasons to rely on System 1 as your condition monitoring platform for every asset

System 1 software is, without question, the most powerful platform we have ever released for comprehensive condition monitoring. It combines support for numerous data sources (online and offline systems, process data, CMMS data), a highly flexible client/server architecture, extremely powerful diagnostic capabilities, and a modular design that allows customers to configure their system with only those features that are relevant to their specific asset types.

We are pleased to announce the release of version 6.0, which introduces many powerful new capabilities. However, because System 1 software has so many powerful features, it can also be complex. For this reason, version 6.0 gives special attention to making the product easier to use and easier to deploy. This translates to a faster learning curve for your people as well as simpler implementation in your plant's IT environment.



In the following table, we have summarized the numerous additions made to the software since the Second Quarter 2004 issue of ORBIT when we last updated our readers with the release of version 5.0. In the nearly two years since that last update, the product has continued to evolve substantially.

What's New in System 1 version 6.0?

FEATURE	BENEFIT	DESCRIPTION
Improved partitioning and licensing	Easier license administration for users, fewer system expansion restrictions, simpler menu options, and easier to purchase only what you need	Users now pay for only what they need, with a far more scalable architecture and pricing structure. It is now possible to purchase only the functionality relevant to specific machine types or applications (such as Hydro or Reciprocating Compressors), and to purchase only the number of points needed to address the application – without constraining the ability to economically add more points and machine types in the future. Most customers will also benefit from fewer restrictions on the number of display and configuration clients they can install under a single license.
File-based configuration	Faster, easier point configuration	For systems with a large number of points, previous versions of System 1 software required the use of individual configuration screens for each point. The introduction of file-based configuration capabilities now allows users to configure large numbers of points more rapidly. Configuration data can be imported/exported as a “flat file” to a Microsoft® Excel® spreadsheet, allowing fields to be pre-populated, data to be cut and pasted, points to be easily replicated, and many other options. New query/report tools allow users to search for only those points and parameters to be changed (such as the lower alarm levels for all pressure points) and export only those points and configuration parameters to Excel. New mapping tools are also present, making it much easier to map configured instrument points to their corresponding enterprise locations.

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Improved rule-building capabilities	Faster, easier rule configuration and verification	New tools dramatically reduce the time it takes to build and verify rules by making it easier to find the applicable operands for a given rule and by reducing the number of operands that need to be mapped to each rule. New reporting utilities have also been introduced, allowing you to rapidly identify missing or incorrect details in rule configuration data.
Improved support and diagnostics for IT professionals	Faster, easier, and more comprehensive abilities to monitor System 1 utilization and operation	A Systems Management Console (SMC) is now available, providing users with tools for analyzing database, memory, and disk usage statistics, security settings, estimated time remaining until storage devices are full, overall “health” of the System 1 installation, and many other powerful utilities frequently requested by customers’ IT departments.
State-based monitoring and diagnostics	Improved equipment diagnostic capabilities and cause/effect determination	Identical in concept to the state-based monitoring in selected 3500 modules (see page 17), System 1 now allows users to provide state-based variables in software. These states (such as machine on or off, unit at high or low load, etc.) can be used in a variety of ways, such as filtering data plots to only a specific operating state. States can also be used when designing custom rules in the Decision Support module of System 1 software.
Enhanced OPC interface	Faster, easier, and more comprehensive integration with other systems	In addition to support for OPC’s Data Access (DA) specification, System 1 now supports the OPC Alarm & Events (A&E) specification. This provides users with improved ease and efficiency with which event-based data (such as alarms or configuration changes) can be exported to other systems.
Export to CSV/XML for plot to file/clipboard	Faster, easier data sharing between applications	Right-clicking on a plot now gives users the option to not just export a graphic of the plot, but to export the data points that comprise the plot in either CSV or XML format. This simplifies data export to other applications for advanced analysis, manipulation, plotting, correlation, reporting, and other functions.
Enhanced compressor map features	Faster, easier, more accurate compressor management	Performance maps now support an advanced smoothing algorithm for reactive and performance curves, enabling more accurate compressor performance measurements, improving compressor management and diagnostics.
Improved archiving	Faster, easier access to historical data	Archive databases can now be updated “in place”, saving valuable time by eliminating the need to separately unzip and update archives before viewing.
Improved rule-testing capabilities	Faster, easier ability to verify the correct operation of rules before deployment	Historical test sessions can now be executed directly on RulePaks and run against both System1 historical databases and System1 archived databases. Users save time and testing costs by validating their RulePaks against known historical data first, before live deployment.
Multiple usability enhancements	Faster, easier, and more intuitive use; improved diagnostic precision	There are over one dozen usability enhancements introduced in version 6.0, ranging from the ability to tile plots in more formats, to the ability to exactly specify decimal digit precision when viewing data, to improved drag-and-drop capabilities for more types of objects in System 1 software.
Additional reciprocating compressor capabilities	Faster, easier, more accurate diagnostics for more machine and process types	There are over half a dozen significant enhancements for this machine type alone, allowing improved diagnostics and monitoring accuracy. For example, the software is now able to use dynamically changing process gas compositions in its calculations, important for machines that handle variable process streams. 