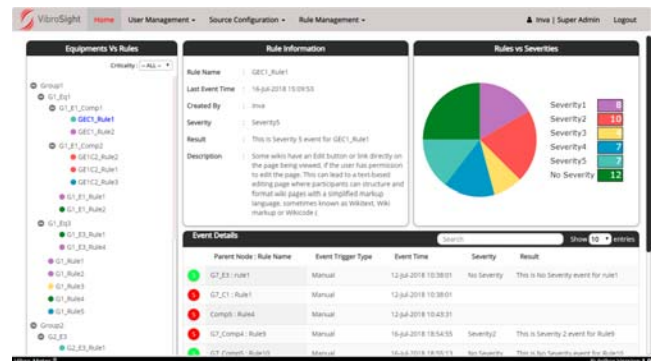


DATA SHEET

vibro-meter®



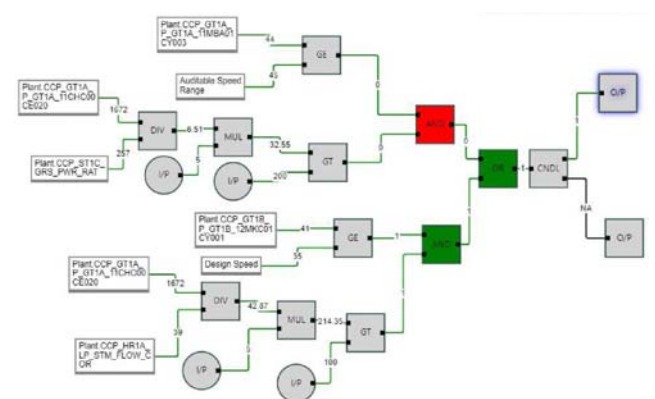
VibroSight®  
diagnostics rule box  
software



Dashboard (example)

KEY FEATURES AND BENEFITS

- From the vibro-meter® product line
- Compatible with vibro-meter® VM600 and VibroSmart® machinery monitoring systems, and third-party systems
- Powerful, fully-automated, decision support system for machinery operators and experts
- Tests data against simple or complex diagnostic rules
- Web-application software with graphical user interface
- High-level dashboard
- Real-time data import via OPC DA interface
- Runs on Windows® operating systems



Diagnostic rule (example)

APPLICATIONS

- Machinery monitoring and analysis
- Allows knowledge to be captured by machinery diagnostic experts and applied by operators

DESCRIPTION

The VibroSight® diagnostics rule box software, from Meggitt's vibro-meter® product line, is a powerful, fully-automated, decision support system for use by machinery operators and experts that supports the effective monitoring of all rotating machinery.



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## DESCRIPTION *(continued)*

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The VibroSight® diagnostics rule box software is compatible with VibroSight® machinery protection systems (MPSs) and/or condition monitoring systems (CMSs), and any other machinery monitoring systems that support an OPC DA (OPC Classic) interface for the export of real-time data.

It is a web-based application that applies the diagnostic rules and decision support tasks configured for an application/system to real-time data in order to quickly and automatically provide the information required to support the operation and maintenance of machinery, helping to reduce costs.

### **Rule management**

The Rule management component of the software is used to design and manage diagnostic rules that act on the imported real-time data to provide the required system functionality for a machinery monitoring application.

The diagnostic rules that process the input data are created graphically by adding and connecting blocks from a library of configurable functional blocks in order to generate the appropriate outputs (results/actions).

The library of functional blocks available provide arithmetical, statistical, relational, logical, conditional and temporal functions. And mathematical expressions can be created using combinations of arithmetic, trigonometric and/or logarithmic functions.

All diagnostic rules are individually configurable for rule properties such as event logging to the database (threshold and hold time), run/update rate (frequency), delay/hysteresis (hold time) and seriousness (severity). They can also be assigned diagnosis and corrective action information that is displayed to the operator, when appropriate.

Once designed, tested and approved, the diagnostic rules are added to the Windows® service to run in the background. Templates of standard diagnostic rules and procedures can be developed and used with different items of machinery.

### **Dashboard**

The Dashboard component is the home page of the software that organises, summarises and displays the information generated by the diagnostic rules running in the background on the Windows service (RuleService).

The dashboard (home page) summarises the outputs (results/actions) of the VibroSight® diagnostics rule box software in order to provide an "overall" view of the operational status of the machinery being monitored to machinery operators and diagnostic experts.

The "overall" view displayed by the dashboard consists of a number of reports/windows, including overall information on the machinery being monitored (asset hierarchy), diagnostic rule severity information for a selected item (criticality summary, equipment, component and/or rule details), health and status information for a selected item (asset health status), and event information for a selected item (diagnostic events and system events).

Each report/window is dynamic and interactive, allowing additional information to be quickly and easily displayed depending on the items selected by the user.

### **Configuration and operation**

Other software components are used to configure and manage the operation of a VibroSight® diagnostics rule box application/system.

The Login component restricts access to registered users, while the User management component creates and manages user accounts with different roles.

The Source configuration component is used to configure the OPC DA data sources and the individual data points/measurements (OPC tags) that provide the inputs (real-time data) to the diagnostic rules.

The Service component is a Windows® service that runs the approved rules in the background to generate the information and reports for the dashboard.

**DESCRIPTION** *(continued)*

Irrespective of how it is used, a VibroSight® diagnostics rule box application/system runs in parallel with and independently of the machinery monitoring system(s) that it imports data from, thereby ensuring that the source condition monitoring and/or machinery protection functionality is never compromised. (See **Block diagram on page 3** and **Software components on page 4** for further information.)

**OPC DA**

OPC is a set of specifications that provides a common interface for communications and the exchange of data between different products from different manufacturers over Ethernet networks.

OPC uses a client-server architecture and a publisher-subscriber model in order to allow devices and programs to communicate and share data with each other. On a computer network, the OPC server (slave) “publishes” data

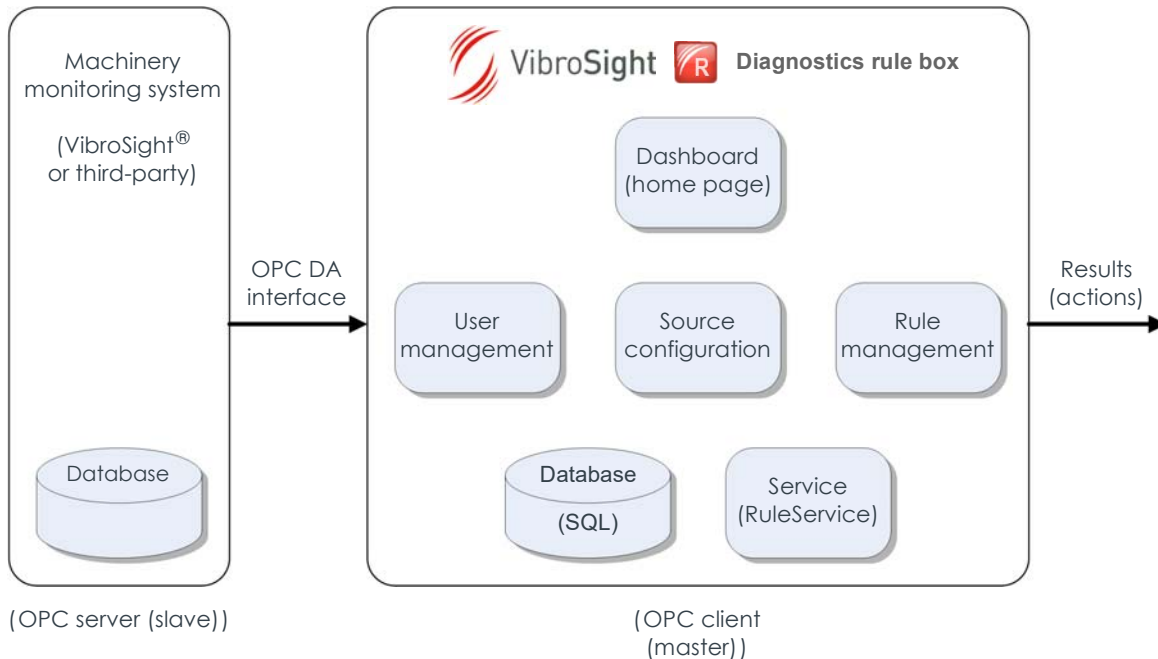
to the OPC clients (masters) which have “subscribed” to the data points (tags) that they are interested in. Because the OPC server is responsible for data publication, the OPC clients do not have to continuously poll the OPC server, which reduces network traffic and frees up processing time for other tasks. As a result, OPC enables the implementation of systems with large quantities of data that are efficient and scalable.

**Applications information**

The VibroSight® diagnostics rule box software is designed to be easy to use and is highly suitable for machinery monitoring in a wide range of industrial applications that require fully-automated, decision support for machinery diagnostic engineers and operators.

For specific applications, contact your local Meggitt representative.

**BLOCK DIAGRAM**



VibroSight® diagnostics rule box software and system architecture – the relationship between the machinery monitoring system (input) and the VibroSight diagnostics rule box software and results (output)

## SOFTWARE COMPONENTS

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The VibroSight® diagnostics rule box software consists of the following main components:

Login	Restricts access to registered users with valid and correct login credentials.
Dashboard (home page)	Organises, summarises and displays the information generated by the VibroSight® diagnostics rule box software, notably the information and reports from the diagnostic rules.
User management	Creates and manages user accounts with different roles (user levels and access rights).
Source configuration	Configures the OPC DA data sources and the individual data points/measurements (OPC tags) used to import the real-time data required by the diagnostic rules. A configuration file (*.xls file format) is used to define the data points/measurements.
Rule management	Designs and manages the diagnostic rules that act on the imported real-time data (OPC tags) to provide the required system functionality (results/actions) for a machinery monitoring application. Diagnostic rules are configured graphically using inputs (OPC tags), functional blocks and outputs (results/actions). A library of functional blocks and operations are available, including: <ul style="list-style-type: none"><li>• Arithmetical: addition, subtraction, multiplication, division, modulus, power, square, square root, cube.</li><li>• Statistical: min, max, count, sum, average, variance, standard deviation.</li><li>• Relational: =, ≠, &gt;, &lt;, ≥, ≤, not in range.</li><li>• Logical: AND, OR, NOT, NAND, NOR, XOR, XNOR.</li><li>• Conditional: for checking true or false conditions.</li><li>• Temporal: for controlling the timing of the execution of diagnostic rules.</li><li>• Expression: for the creation of mathematical expressions using combinations of arithmetic, trigonometric and/or logarithmic functions.</li></ul>
Service	Runs the diagnostic rules in the background as a Windows service (RuleService) to generate the information and reports for the dashboard.
Database (SQL)	The VibroSight® diagnostics rule box software uses its database (Microsoft SQL Server® 2014 Express) to store and access data related to the operation of the diagnostics rule box itself, such as configuration information, rules, diagnostic events and system events.

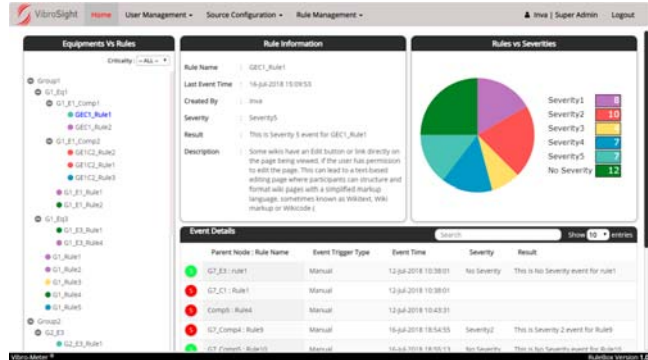
## USER INTERFACE

The VibroSight<sup>®</sup> diagnostics rule box software presents the following main components (screenshots):

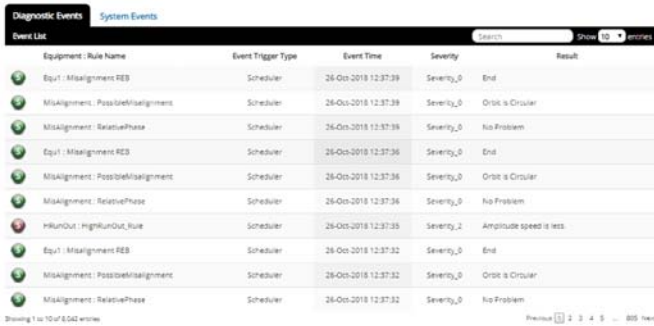
Login



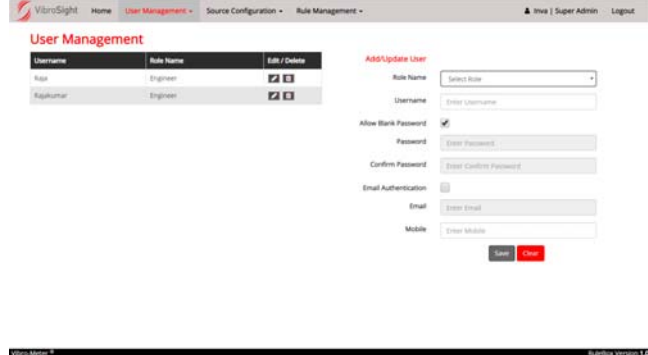
Dashboard (home page)



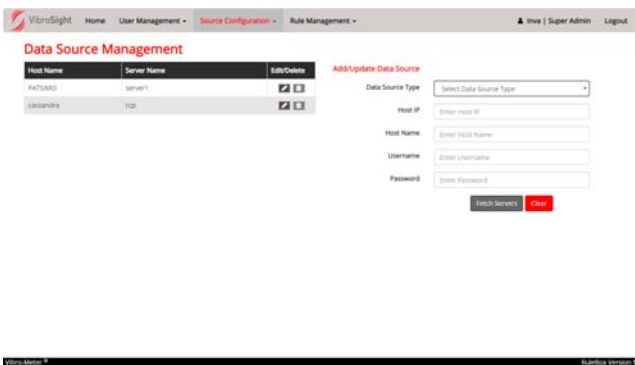
Diagnostic events



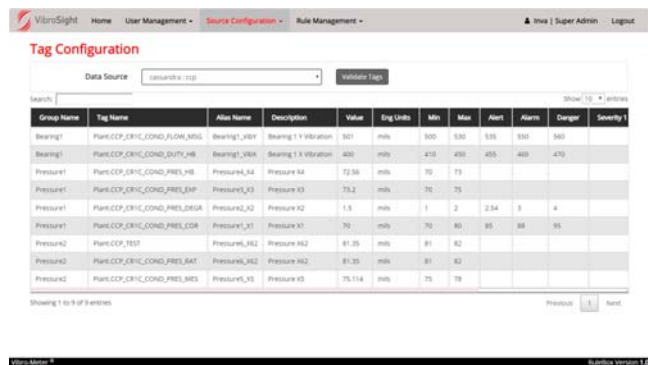
User management



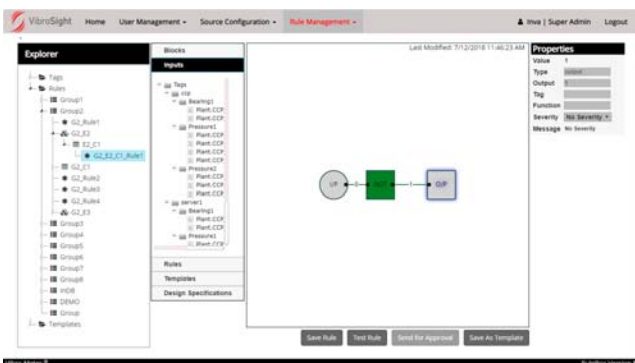
Source configuration (data source management)



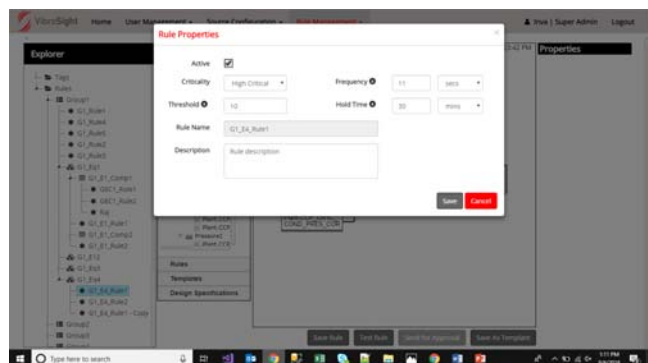
Source configuration (tag configuration)



Rule management (rule design)



Rule management (rule properties)



## EXTERNAL INTERFACES

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The VibroSight® diagnostics rule box software supports the OPC DA (Data Access) interface which allows data to be imported from Meggitt vibro-meter® monitoring systems and third-party systems

## SUPPORTED SYSTEMS AND DEVICES

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Machinery monitoring systems such as:

- VibroSight® machinery protection systems (MPSs) and/or condition monitoring systems (CMSs)
- Other machinery monitoring systems with an OPC DA (OPC Classic) interface

## HARDWARE REQUIREMENTS

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Minimum computer configuration:

- 2.0 GHz multi-core 64-bit (x86) processor
- 12 GB of system memory (RAM)
- 50 GB or more of available storage (disk space)
- 24" 1280x1024 (SXGA) high-colour (32-bit) display
- Gigabit Ethernet network interface adapter (card)
- CD/DVD optical drive and /or Internet access for software installation

Note: In addition to this minimum computer configuration, a faster processor, additional system memory and/or additional hard disk space are recommended for more demanding machinery diagnostics applications.

## SOFTWARE REQUIREMENTS

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Microsoft® Windows 10, Windows Server 2012 Enterprise or Windows Server 2008 R2 operating system (64-bit) with the following prerequisites:

- Microsoft .NET Framework 4.5.2 or later.  
Note: Microsoft .NET Framework 4.7.2 replaces .NET Framework versions 4.0 to 4.7.1.
- Microsoft Internet information services (IIS) 10.0 or 7.5
- Microsoft SQL Server® 2014 Express database
- Google Chrome web browser

Notes

Windows 7 and Windows Server 2008 R2 are no longer recommended as Microsoft® support for these operating systems ended in January 2020.

Microsoft .NET Framework and IIS are free software, available from Microsoft websites. Both are automatically installed by the VibroSight diagnostics rule box installer as part of the software installation process.

Microsoft SQL Server® 2014 Express is free software, available from Microsoft websites.

Google Chrome is free software, available from Google websites.

## PRODUCT SUPPORT AND MAINTENANCE

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Product support and maintenance is free for the first year. The technical support includes:

- Email and telephone support
- Software updates and upgrades

## ORDERING INFORMATION

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To order please specify

Type	Designation	Ordering number (PNR)
VibroSight diagnostics rule box	VibroSight diagnostics rule box software	609-008-000-SSS

Notes  
"SSS" represents the software version.

## RELATED PRODUCTS

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VibroSight	VibroSight machinery monitoring system software	Refer to corresponding data sheet
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## Meggitt SA software

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