ZOOM® Software Suite

Version 7.0

The ZOOM® Software Suite is comprised of ZOOM® Platform and a wide variety of optional modules available individually, based on required functionalities.

ZOOM® Platform

ZOOM® Platform is composed of the following software applications:

Software	Description
ZOOM® Server	Windows Service to create new databases, manage existing databases, control communications between the various applications, and manage all measurement requests.
ZOOM® Configuration	Graphical user interface to describe equipments configuration within the ZOOM® system, set alarms and events thresholds, and set the intervals on which automatic measurements will be taken.
ZOOM® Application	Graphical user interface offering various tools and graphic features to take manual measurements, acknowledge alarms, display results, and monitor equipments status.
ZOOM® Server Status	Windows Service to monitor and annunciate the status of the ZOOM® Software Suite at Controller level.

Available languages

The ZOOM® Software Suite is available in:

- English
- French
- Russian
- Spanish

However, all equipment designations are only available in English.

* Equipment Sold Separately.

Available Software Packages

Data Acquisition Software Packages

ZOOM® Platform is complemented by acquisition modules dedicated to configuration and use of data acquisition equipment. The following table lists the available acquisition modules:

Module	Description	Equipment*
ZOOM® ZPU5000™	Software package for fast data acquisition, protection, advanced data analysis and diagnostic.	ZPU™-5000
ZOOM® ThermaWatch® Stator	For trending and alarming of the stator temperature.	HAVSM and TWS™ sensors
ZOOM® Look	To monitor trends and alarms for slow evolving parameters.	State™-200
ZOOM® PDA200	Adds partial discharge analysis and display functionalities to ZOOM® Platform.	PDA-200
ZOOM® SFA100	Adds Stray flux analysis and display functionalities for turbo to ZOOM® Platform.	SFA-100

System requirements

Computer requirements for ZOOM® Controller:

Recommended Hardware
- Server type computer
- Processor: Intel Xeon, Quad-Core or Dual-Core
- 4 GB of RAM or more
- DVD burner
- Dual Ethernet network card for LAN/WAN settings
- SVGA at 1280 x 1024, 32-bit color
- 4 GB of free disk space on the installation drive
- 250 GB or more of free disk space for databases

Operating System requirements
- Windows Server 2003 or 2008
- Not recommended: Windows XP, Windows Vista, and Windows 7

Recommended database engine:
- For Windows Server 2003: Microsoft SQL Server 2008 R2 Standard, 10 CAL
- For Windows Server 2008: Microsoft SQL Server 2008 R2 Standard, 10 CAL or Microsoft SQL Server 2012 Standard, 10 CAL

Computer requirements for ZOOM® Workstation:

Recommended Hardware
- Processor: Intel Dual-Core
- 2 GB of RAM or more
- Ethernet network card for LAN/WAN settings
- CD or DVD drive
- SVGA at 1280 x 1024, 32-bit color
- 2 GB of free disk space on the installation drive

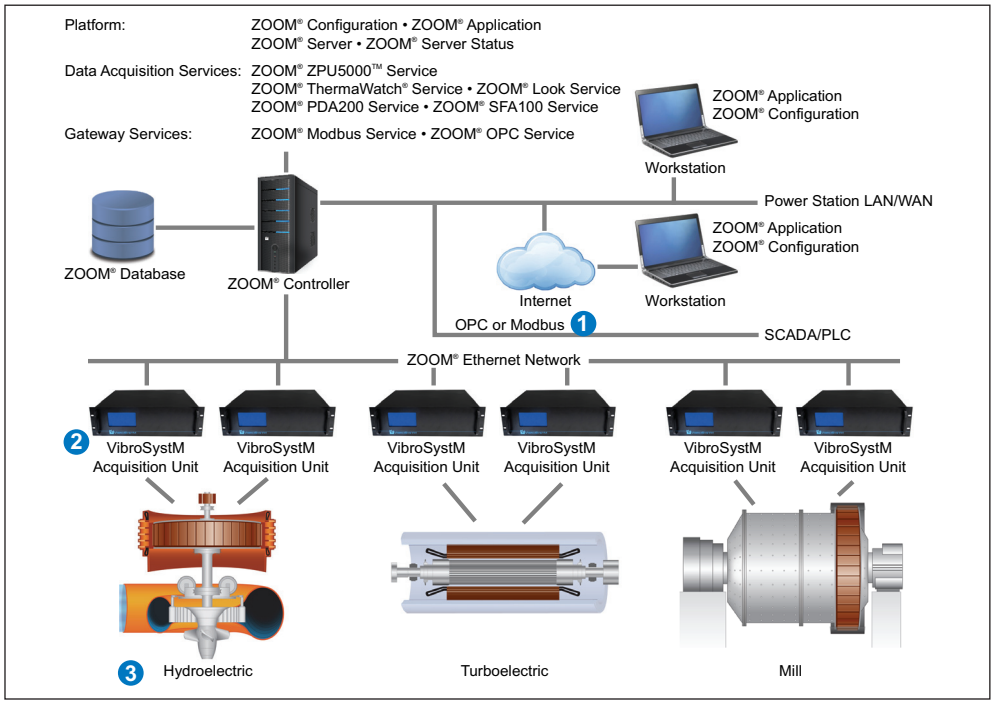
Operating System requirements
- Windows XP Pro SP3, Windows 7
- Also available with limitations: Windows Vista

Gateway Software Package

ZOOM® Platform may be complemented by gateway modules, providing connectivity between the ZOOM® system and an external system (ex.: SCADA)

Software package	Description	Protocol
ZOOM® Modbus	Bi-directional communication gateway between ZOOM® and plant control system/SCADA to collect data from the control system, and make ZOOM® trending data available to the control system.	Modbus RTU or TCP
ZOOM® OPC	Bi-directional communication gateway between ZOOM® and plant control system/SCADA to collect data and alarm messages from the control system and make ZOOM® Trending data, ZOOM® Alarm and events available to control system.	OPC DA 2.05 a and OPC AE 1.10 over Ethernet

Overview



1. *Trends are available from the Controller or ZPU™-5000 via Modbus protocol-based communication. The Controller can use Ethernet or an RS-485 link, while the ZPU™-5000 communicates through an RS-485 link.*
2. *Various equipment components are available for coverage of specific functionalities. Currently available equipment include: ZPU™-5000, SFA-100, PDA-200, HAVSM, and State™-200.*
3. *ZOOM® is available for hydroelectric units, turboelectric generators, wind turbines, large reversible pump storage units, and large rotating mills and mines machinery.*

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