

Wonderware HMI Reports

Easily Create Reports from Information in Wonderware InTouch HMI and Other Data Sources

A Common Problem

Accurate and easy to read reports can be difficult to create, take time to configure, and typically require work from the IT department or an outside resource at added cost. Even minor changes can take days.

Wonderware HMI Reports is the Solution

Wonderware® HMI Reports significantly reduces report development time, simplifies report modifications, and empowers users to transform raw data into usable information. Create visually appealing and informational reports using data driven tables, pie charts, bar charts, XY plot charts. Custom reports can be created easily, quickly, and inexpensively and made available to anyone, anywhere, anytime because it includes a web portal. Wonderware HMI Reports includes simple integration tools for easy data extraction from InTouch® HMI, Wonderware Historian/IndustrialSQL Server, and any data source using OPC, OLEDB, ODBC, as well as other HMIs.

Simple, Smart, Secure

Wonderware HMI Reports is the most intuitive and easy-to-use reporting solution available on the market today. It is specially designed for industrial automation.

Wonderware HMI Reports doesn't require any IT or programming skills. Configuration is done through simple interfaces, menus, intelligent report objects, and friendly dialog boxes.

Make reports available to any authorized person over a Web portal. Built in security makes it is easy to define who has access to Reports and who can create, modify, or generate Reports. Even customize these setting on a per-report basis.

Easily comply with regulatory and internal reporting requirements.

Take Control of Your Data

- Quickly and easily consolidate your InTouch HMI or Historian/IndustrialSQL Server data into concise reports to better understand your processes and business
- Rapid and intuitive reports creation
- Faster than Crystal Reports® or Microsoft® Excel®
- Generate and Distribute custom Reports automatically in Excel, Adobe Acrobat format (PDF), email, and HTML formats
- Industry report templates are included for fast and easy report creation. Or, create custom report templates in minutes.

Multilingual

Wonderware HMI Reports enables users to change or add new languages online. English, French, German, Italian, Portuguese, Chinese, Hebrew, Russian, Polish, Korean, languages are supported.



SIMPLE AND EASY REPORT CREATION

Drag-and-drop 'intelligent' report objects from the Object Toolbar into the Report Template, the data manipulation is done automatically. Unique statistical objects make is easy to extract specific processes metrics and perform data analysis.

Object Toolbar



Intelligent Report Objects Can Automatically Generate:

Current value	Integral	Status
Last value	Duration	Alarm Counter
First value	Uptime	Logged Counter
Minimum value	Downtime	Availability
Maximum value	Runtime	Deviation
Average	On Counter	Timestamp
Weighted Average	Off Counter	SQL Query
Sum	On/Off Counter	

XY Charts Objects

Users can define time-based values on XY charts. Combine charts from different time frames to visualize and compare results fast (production and processes). The chart objects support different types of data value, average value and linear regression. Users can display and adjust multiple scales automatically or manually.

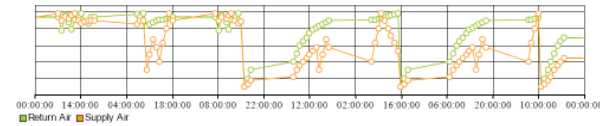


Table Objects

Wonderware HMI Reports offer multiple options to extract Data and Alarms in different tables. Users can select pre-formatted tables or create their own with the SQL table.

Local Reactor Alarms					
Tagname	Start Time	Ack Time	End Time	Response Time	Duration
ReactTemp	09/12/06 07:10:05				
ReactTemp	09/12/06 07:10:05				
ReactLevel	09/12/06 07:09:54				
ReactLevel	09/12/06 07:09:31		09/12/06 07:09:31		0:00:00
ReactLevel	09/12/06 07:09:25				
ReactTemp	09/12/06 07:08:59				
ReactTemp	09/12/06 07:08:59				
ReactTemp	09/12/06 07:08:59		09/12/06 07:08:59		0:00:00
ReactLevel	09/12/06 07:08:48				0:00:00
ReactLevel	09/12/06 07:08:25		09/12/06 07:08:25		0:00:00
ReactTemp	09/12/06 07:07:52				
ReactTemp	09/12/06 07:07:52		09/12/06 07:07:52		0:00:00
ReactTemp	09/12/06 07:07:42				
ReactLevel	09/12/06 07:07:42		09/12/06 07:07:42		0:00:00
ReactLevel	09/12/06 07:07:19		09/12/06 07:07:19		0:00:00

STEP table enables users to extract and display analytics from any step period in just a few clicks.

Free-format tables provide the ability to generate a table with data from any database.

Report Formatting Objects

Customize the look of each report. Drag-and-drop simple formatting objects for date and time, project name, report name, and page numbers.

Time and Batch Based Reports

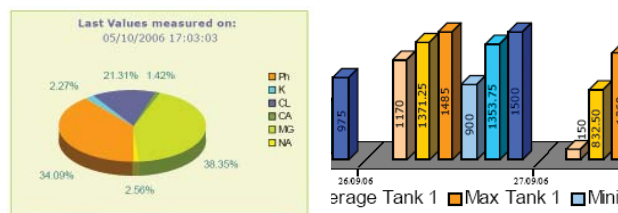
Wonderware HMI Reports supports both batch and time based reports. It also enables users to combine report objects with different period settings. For example, it is possible to compare two different batches on a chart.

Enterprise Integration

Wonderware HMI Reports enables the archiving of data in specified databases for further Enterprise Information Integration.

Bar and Pie Charts Objects

Wonderware HMI Reports Bar and Pie charts allow users to display various statistical values in clear views with advanced visualization (% , legend and value).



USER FRIENDLY INTERFACE

Wonderware HMI Reports unique user interfaces:

- **Wonderware HMI Report Studio:** develop and configure report projects
- **Wonderware HMI Report Run Time:** execute report projects
- **Wonderware HMI Report Generator:** generate new reports on demand
- **Wonderware HMI Report Web Portal:** access reports from a web browser

WONDERWARE HMI REPORTS STUDIO

Wonderware HMI Reports Studio is multilingual and secure software that enables users to develop multiple reporting projects. The Studio is divided in two sections, Logger and Designer, to facilitate project engineering and protect critical configuration such as communication interfaces.

Logger Studio

Using Logger studio, connect HMI Reports to any Smart Device, any RTU, PLC, but also to any manufacturing application such as SCADA Systems, DCS Systems, MES applications and more. It can also leverage any data logged in any standard database.

With HMI Reports Logger Studio, users can mix real time and historical data sources to finally aggregate all their data in one strategic information management application. The Logger studio also allows users to visualize all real-time data exchanged between Wonderware HIM Reports and the data sources.

Designer Studio

The Designer Studio offers an intuitive interface with powerful toolbars enabling users to easily create accurate and visually appealing report templates. All data extraction is done with the HMI Reports Object Toolbar. This object library integrates dedicated Object for industrial automation reports. Also, define the generation and distribution report settings for each individual report.

WONDERWARE HMI REPORTS RUN TIME

Reporting projects are executed by Wonderware HMI Reports Run Time. It also enables users to select any report and generate it instantly with the latest updated values.

Wonderware HMI Reports Run Time Manages:

- Security and all access rights
- Data acquisition of real time sources

- Data logging in any standard databases (by default SQL Server)
- Data extraction from Historians or from Wonderware HMI Reports History
- Permanent calculations of all analytics defined in reports
- Proactive report generation
- Automatic report distribution
- Dynamic Report Generator to generate reports on demand
- Optionally, Wonderware HMI Reports Web Portal to visualize all reports archived and to generate new reports over the Internet/Intranet

DYNAMIC REPORT GENERATOR

With Dynamic Report Generator (DRG), authorized users can select any report template running in Run Time and generate a new report "on demand" instantly. This module is available as a standard windows application, a Web application, and as an ActiveX component to be integrated into InTouch HMI applications.

- Generate reports with original settings to get up to date values
- Or, generate reports with modified settings such as custom time period, relative time, fixed period, or per batch name.

WONDERWARE HMI REPORTS WEB PORTAL

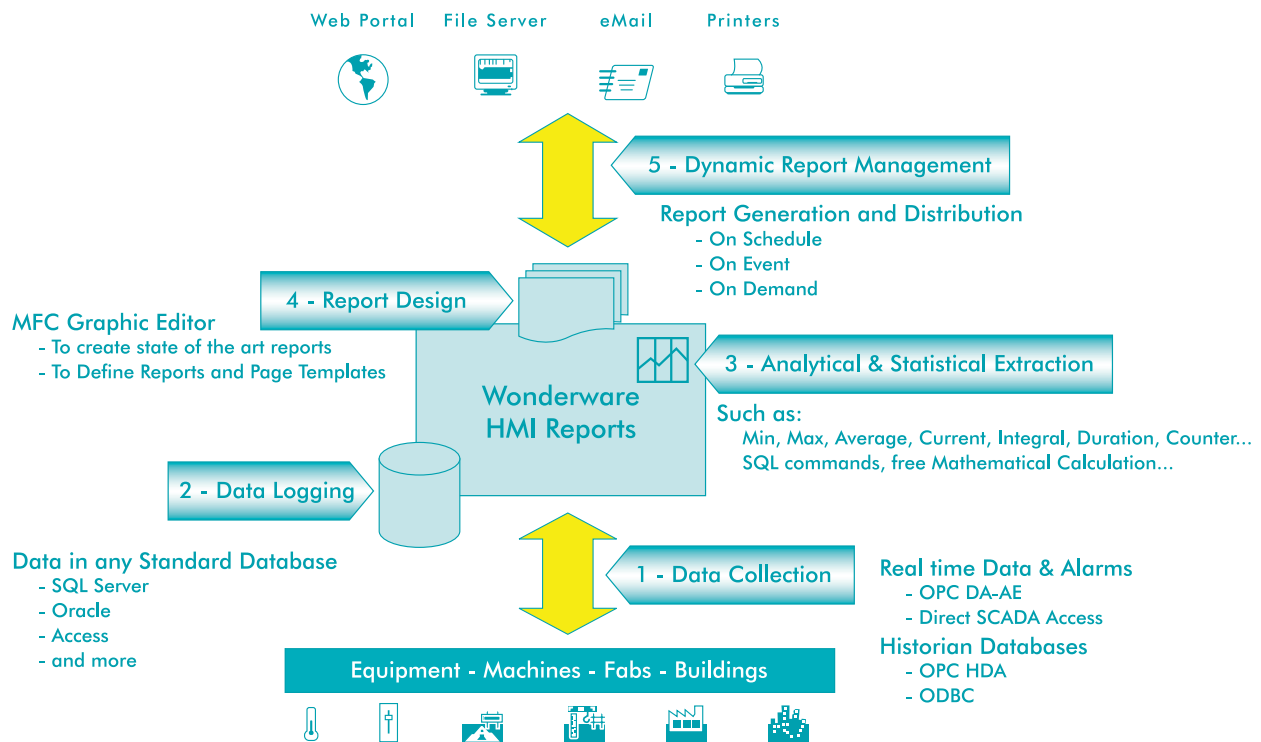
Wonderware HMI Reports Web Portal is ideal for distributing and sharing reports over the Internet/ Intranet. Customized security manages access rights for users. Authorized users can easily browse and display PDF reports from the current running project or generate new reports on demand using Web DRG. Also, it can be customized and integrated with other web portals.

Wonderware HMI Reports Web Portal is ideal for improving global asset management and facilitating business decisions by providing proactive up-to-date reports. It can be used by operators, managers and executives as well as customers, organizations and suppliers that elect to be permanently connected and interact with the field. And because HMI Reports is multi-lingual, the Web Portal can be used across the globe.

It enables any authorized user to:

- Visualize all reports archived
- Generate new reports on demand
- Change report settings before generation

THE POWER IS IN THE INNOVATIVE DESIGN



1- Data Collection

HMI Reports integrates a robust communication kernel to collect data and alarms from InTouch HMI and Wonderware Historian, as well as other data sources. It uses OPC, OLE and ODBC standards to connect and collect data from different suppliers. In addition, special drivers are included to leverage native history from SCADA systems, DCS, RTU, other HMIs, and more.

2- Data Logging

HMI Reports integrates an historical database to log clean and accurate data in any standard database such as Microsoft SQL Server, Oracle, MYSQL, or Access.

This unique feature positions HMI Reports not only as a reporting tool, but also as the ideal solution of field data integration for enterprise applications.

3- Data Extraction & Analysis

HMI Reports integrates a user friendly object library to extract data statistics and analysis to be displayed in multiple views like tables, bars, pies, charts and more.

4- Report Design

HMI Reports studio module integrates an intuitive graphical editor to create and save state of the art reports as templates.

5- Report Generation & Distribution

HMI Reports enables you to generate reports manually and automatically. The automatic mode executes reports on event and on schedule. Reports can be automatically printed, emailed, stored and published over the web. Reports can also be generated manually by authorized personnel at any time. Users can change the report time settings during manual generation.



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