

# smar

NOVA SMAR S/A

## PROCESS VIEW

### PROCESS VISUALIZATION AND OPERATION SOFTWARE



# ProcessView

## Overview

SMAR PROCESSVIEW™ is the industry's first and only fully scalable suite of OPC, SNMP, Web-enabled HMI and SCADA applications. Designed from the ground up to take advantage of the entire range of Microsoft® Windows® operating systems, the PROCESSVIEW Automation Suite delivers unparalleled performance and cost savings due to its design around open standards.

PROCESSVIEW centers on easy and reliable integration of information from the most popular communication infrastructures. With PROCESSVIEW it is easy to connect to the core sources of information affecting manufacturing, including: IT infrastructures monitored by SNMP, plant floor infrastructure communicating over OPC, and enterprise infrastructures, such as SAP and Oracle, through real-time, intelligent data mining. The PROCESSVIEW HMI/SCADA software suite incorporates these infrastructures to provide the most flexible connectivity for machine builders, automotive, pharmaceutical, oil and gas, water, energy and utilities and many other applications. Several new products have been introduced, including new DataWorX™ Redundancy, OPC Tunneling, MonitorWorX™ and ScheduleWorX™. This all-new version also incorporates powerful data-mining and integration technology that enables visualization and reporting of real-time or enterprise data sources, including Microsoft SQL Server, SAP, Oracle, plant historians, SNMP, and OPC data.

## Visualization

With one development tool for multiple targets, you can create impressive, scalable and portable visualization, trending, and alarm management displays using SMAR easy point and click development tools.

PROCESSVIEW V9.5 will run on Microsoft Windows 32-bit and 64-bit operating system platforms, including Windows 10, Windows 8.1, Windows 8, Windows 7, Windows Vista, Windows XP, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2 Standard, Windows Server 2012 R2 Enterprise and Windows Server 2016 Standard.. Rich, Web-enabled applications run on Internet Explorer and Terminal Services as well as wireless Pocket PC, Windows CE, and Embedded XP devices.

SMAR PROCESSVIEW is the industry's first and only fully scalable suite of OPC Web-enabled HMI and SCADA applications and is ideal for all industries. Designed from the ground-up to take maximum advantage of the entire range of Microsoft Windows platforms, PROCESSVIEW is a full featured scalable HMI.

# GraphWorX™32

GraphWorX is a human-machine interface (HMI) software package for process control. This fully compliant OPC client featuring ActiveX® and OLE Automation technologies helps create dazzling animated graphics. Available in the standard PROCESSVIEW suite of applications, or as a stand-alone Open Series component, GraphWorX offers unparalleled tools for easily creating the content you need for efficient operations.

As with all SMAR products built on the OPC-To-The-Core technology, GraphWorX is an OPC Data Access client application. That means it can easily plug-n-play not only with SMAR servers and components, but also with other 3rd-Party hardware interface drivers and software.

## DataWorX™32

DataWorX is a 32-bit, multithreaded, OPC-compliant client and server application providing multiple-functionality that conforms to Microsoft COM/DCOM program practice. DataWorX is a component of the PROCESSVIEW product family, and it serves as a project-level data system for PROCESSVIEW applications. Acting as a bridge between various OPC servers, DataWorX provides different OPC data channels. Once multiple I/O channels are established between PCs, DataWorX will switch between a primary PC (node) and a backup PC on the network. Should the primary PC be disabled, DataWorX will automatically (should the options be specified) default to the backup PC and vice versa. Another feature of DataWorX is the use of global variables that are accessible from multiple clients.

The main features of DataWorX include the following:

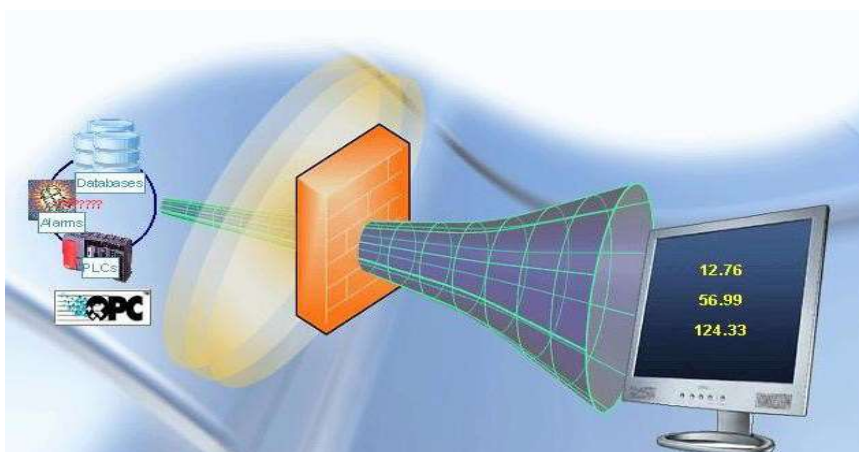
- OPC Redundancy
- Secure OPC Tunneling
- Patented OPC Data Bridging
- Compliant with PC Data Access 1.0 – 3.0 Standards
- OPC Data Aggregation for Optimization
- Easy to Configure
- Real-time Redundancy Status Monitoring
- Client & Server Side Redundancy
- Alarm, Trend and SQL Data Logging Synchronization
- Guard Against Single Point of Failure
- Different Configurations to Choose From

## OPC Tunneling

DataWorX will now be offered in three license versions: Professional, Standard and Lite. DataWorX V9 contains many significant new product capabilities and enhancements, including:

- New full featured redundancy with support for OPC Data, OPC Alarms and OPC HDA Historian
- New OPC Tunneling supports any third-party OPC server to OPC client communications
- New MonitorWorX shows performance and provides centralized diagnostic utility
- Integration with new Unified Data Manager
- OPC groups and user-selectable Data Bridging and Patented Data Aggregation
- New alarm and data historian Store and Forward technology
- New scheduled data transfers

The new OPC Tunneling feature comes with all license versions of DataWorX V9 and connects a remote OPC server to a local client in a robust and secure manner, allowing for one server to be redirected to more than one location. The powerful graphical user interface allows for easy configuration and a centralized place to manage all remote connections. The underlying technology behind OPC Tunneling is the patented SMAR GenBroker™ communication, which provides high-performance and robust communication, replacing Microsoft DCOM communications. OPC Tunneling is completely OPC-compliant and is IT firewall-friendly, supporting communications over LANs, WANs and the Internet with extensive built-in security.



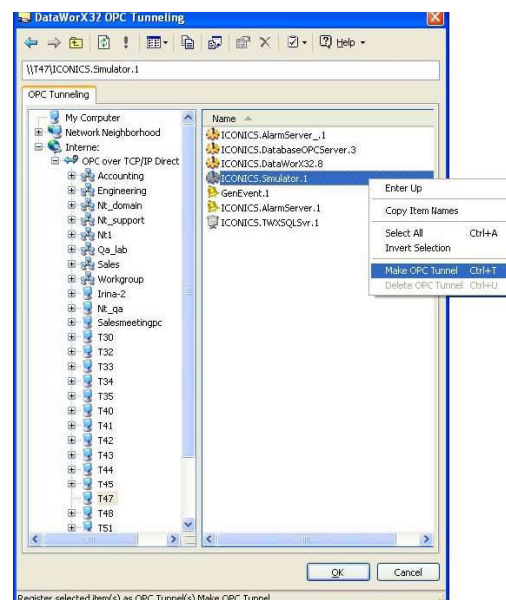
It's simple to install and deploy OPC Tunneling technology to virtually any application requiring remote and secure OPC communications with DataWorX V9.

DataWorX V9 OPC Tunneling fully supports open OPC industry standards such as:

- OPC Data Access (DA 3.0)
- OPC Alarm and Events (AE 1.1)
- OPC Historical Data Access (HDA 1.2)
- OPC Unified Architecture (UA)

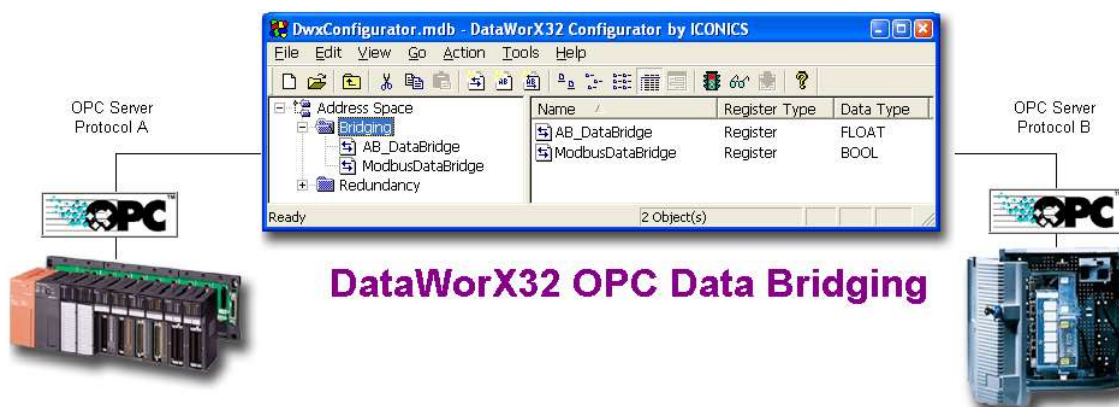
Other significant features of DataWorX OPC Tunneling include:

- Auto-discovery of remote OPC DA, AE and HDA servers
- Extremely simple to set up and configure
- Supports OPC browser interfaces over LANs, WANs and the Internet
- Provides a robust, secure alternative to standard Microsoft DCOM communications
- Integrated secure communications
- IT-friendly communications through firewalls and Network Address Translators (NAT)
- Supports TCP/IP and XML communication protocols

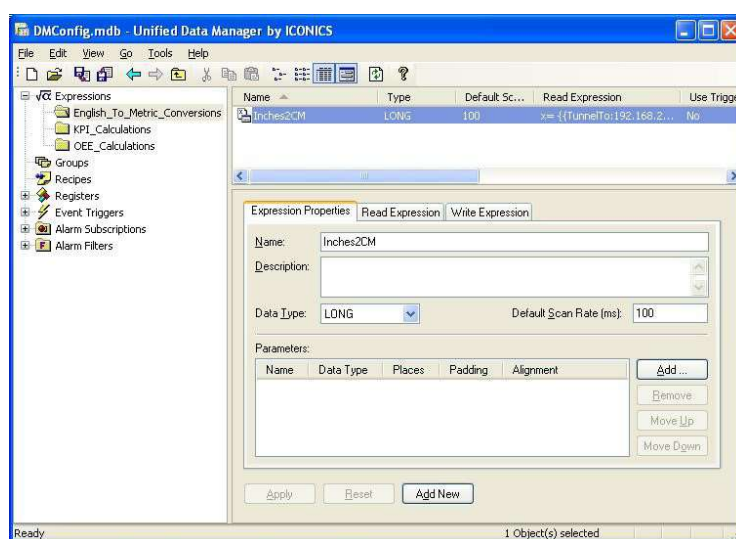


# OPC Universal Data Bridging

DataWorX provides simple and reliable means for connecting real-time OPC DA data between OPC servers and applications using OPC.



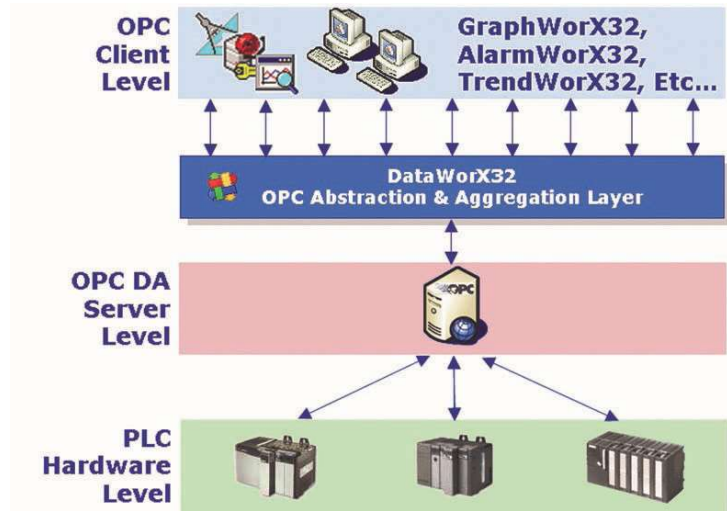
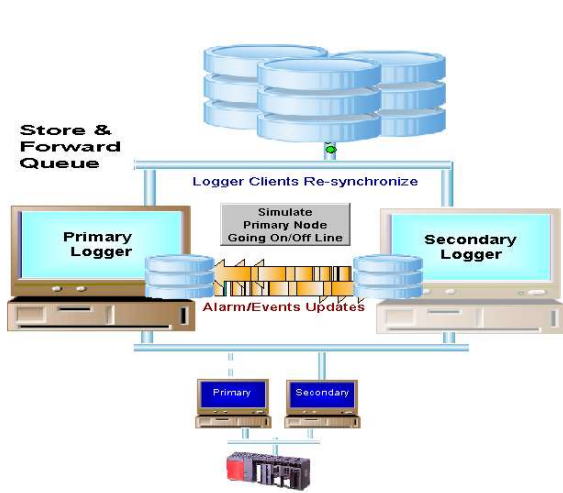
DataWorX supports the use of OPC groups and registers, which are used to form collections of OPC items that will be moved between OPC servers at a specified rate. Using multiple groups, DataWorX allows you to control how fast data are transferred from one OPC server to another. By using DataWorX groups with different update rates, you can tailor your data transfers to fit the needs of the application. While one item may need to be sent at high speed, other items in the application may need slower update rates. The benefit is reduced network traffic and increased overall communications reliability.



## OPC Aggregation

Often in very large projects, several OPC client applications request the same points from an OPC server. For example, GraphWorX may need to display a tank level value, and AlarmWorX may need to monitor and alarm that same value. This may increase the load of the OPC server, as it now has to provide the same data more than once. Thus, when multiple clients request data from an OPC server, DataWorX monitors the OPC server and aggregates the data to the requesting clients.

Often it is desirable to optimize the work performed by the lower-level I/O servers (for example, greater throughput can be achieved). DataWorX can serve as a “middle-man” between clients and servers and assist in this optimization process. This is beneficial especially with remote servers over the network.



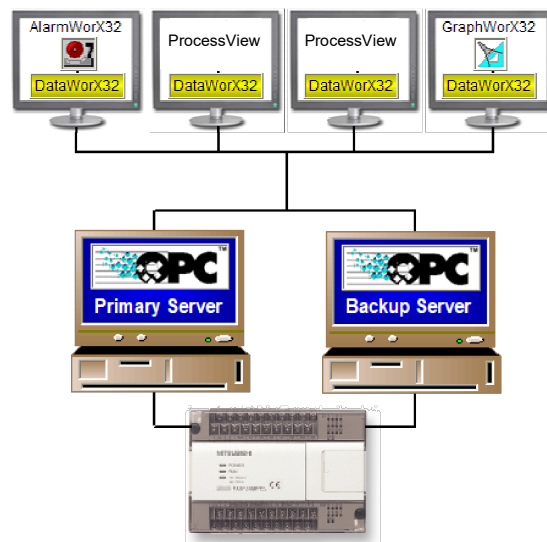
Architecture of OPC Data Aggregation

## OPC Redundancy

### DataWorX Professional with Redundancy

New DataWorX full-featured redundancy provides high availability similar to features found in large Distributed Control Systems. DataWorX Redundancy is the only product to support the three most important OPC standards, increasing the reliability and availability of OPC data by allowing multiple OPC servers to be configured into redundant pairs. These redundant OPC server pairs seamlessly appear as a single OPC server to any OPC client application. This feature can be added to an existing OPC server/client application, without any reconfiguration of those applications, keeping your processes going without any downtime.

Taking maximum advantage of the popularity of the OPC Data Access, OPC Alarm and Events and OPC Historical Data Access standards, a DataWorX-enabled system uses multiple connections to a device or system to increase the reliability of data collection. By using built-in, patented aggregation, redundant data paths transparently map and appear as if a single OPC server connection. DataWorX can be seamlessly integrated into any existing OPC application without any changes to the client and without loss of data.

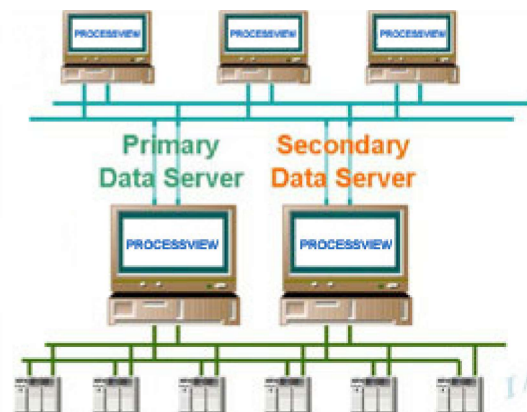


## DataWorX Redundancy Key Features Include:

- Seamless and transparent addition to OPC applications
- Extremely easy to set up; no programming or application changes required
- Upon failure of a primary OPC server, DataWorX automatically switches to the secondary server
- Supports multiple PC Data Access (DA) server pairs; supports 1.0 through 3.0 specifications
- Supports multiple OPC Alarm and Event (AE) server pairs
- Supports multiple PC Historical Data Access (HDA) server pairs
- Add redundant data collection to any OPC Data Access application
- Automatic as well as manual fallback capability when primary server becomes available
- Built-in MonitorWorX support with system tray diagnostics
- Configure OPC tags for visualization of key redundant monitor items
- Built-in audit trail/diagnostics with event logging, tracking redundant events to disk
- Drop-in design makes implementing redundancy a snap
- Available fail-over modes: hot, warm, and cold
- Configurable server polling intervals
- Integrate with multimedia alarming product to provide e-mail, and SMS notifications

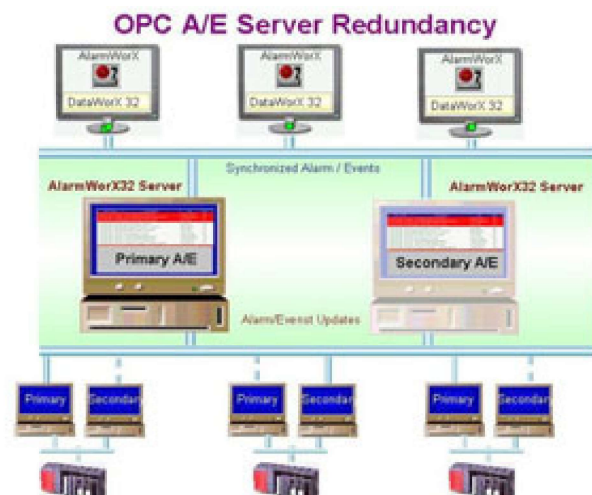
## OPC Data Redundancy

DataWorX supports OPC Alarm and Events server redundancy and alarm logger redundancy. Providing both real-time OPC Alarm Server redundancy as well as synchronization of alarm historical log files was a design goal. Alarm acknowledgements are automatically synchronized, guaranteeing that all operator actions are accounted for when switching from primary to secondary alarm servers and vice versa. Integrated Store and Forward technology provides the core capability when synchronizing alarm history between primary and secondary alarm.



## OPC HDA Redundancy

DataWorX V9 supports OPC Historical Data Access (OPC HDA) redundancy, providing several configurations for guaranteeing synchronization of critical historical time-stamped data. Integrated Store and Forward technology provides the core capability when synchronizing historical data between primary and secondary log files. DataWorX supports Microsoft SQL 2000 and SQL 2005 data stores for highly available trend historian redundancy.



# Analysis

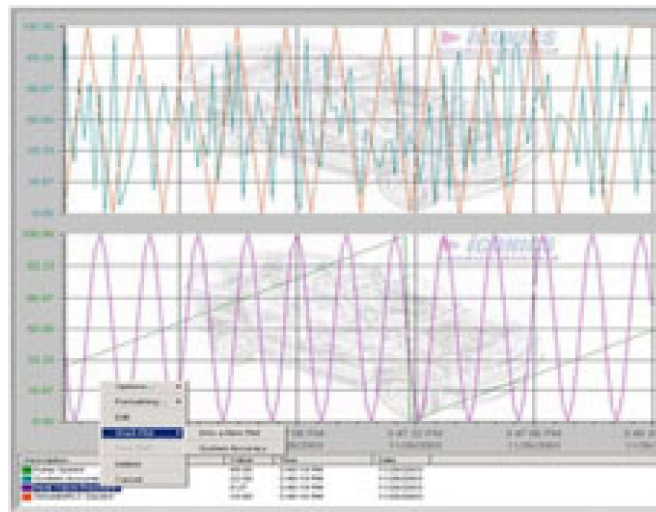
Having the ability to provide real-time analysis of your plant operations is vital. PROCESSVIEW can present real-time and historical information in a wide variety of trend plots. Alarms management can take place anywhere, anytime with instant acknowledgment.

**TrendWorX**, a distributed enterprise-wide data collection, logging, charting, reporting and analysis system, has the distinction of being the first OPC-compliant trending product to be not only an OPC Data Access client application, but also an OPC Historical Data Access (DA) server. That means it can easily plug-n-play not only with SMAR servers and trend components, but with other 3rd-Party hardware interface drivers and trending software as well.

## Trending – TrendWorX™32

### TrendWorX Overview

TrendWorX™32 is a powerful collection of real-time trending, historical data logging, reporting, and analysis tools that seamlessly integrates with enterprise-wide information systems. Based on the OPC Historical Data Access specification for creating Plug and Play historical data servers and clients, TrendWorX offers an open solution to applications requiring scalable and distributed real-time performance.



The powerful Microsoft based ADO/OLEDB data-logging provider is at the core of TrendWorX. OPC HDA provides the standard COM and OLE interface for SMAR Trend ActiveX Viewer Control to display real-time and historical data, separately or simultaneously.

Several trend display types are supported, including time plots, XY plots, logarithmic plots, bar plots, the popular strip chart recorder, and even circular charts! Acquire thousands of data points and organize them into groups for very fast and efficient replay of historical and real-time information. You can use the built in Visual Basic Application to create reports, calculations, and data analysis.

TrendWorX integrates with Microsoft Access, Microsoft SQL 7.0, Microsoft SQL 2005, 2008, 2012, 2016 and Oracle using ADO and OLEDB database technologies.



## Real-time Trending

TrendWorX™32 is a powerful collection of real-time trending, historical data logging, reporting, and analysis tools that seamlessly integrates with enterprise-wide information systems. Based on the OPC Historical Data Access specification for creating Plug and Play historical data servers and clients, TrendWorX offers an open solution to applications requiring scalable and distributed real-time performance.

# Historical Trending

TrendWorX Reporting is compliant with the latest OPC HDA specification 1.2. Although TrendWorX Reporting is not a direct OPC HDA client or server, it creates reports with data outputs as specified by the OPC HDA specification.

Data filter selection other than Raw will result in data time stamped at the beginning of each subinterval.

When retrieving data using data filters other than Raw, subintervals for which there are no data because of no data-logging activity will be marked as “empty” slots at the corresponding time with a zero value. You can check the returned qualities for further processing.

The TrendWorX OLE DB Provider supports a minimal set of “trend SQL” keywords that can be used to formulate “trend” queries in order to retrieve historical data.

If any or both of the start and end dates are not specified, the TrendWorX OLE DB Provider will perform an exhaustive database search to retrieve all samples in the database, or those samples starting from the start date or ending prior to the end date. Because this can be an extremely time-consuming operation, it is suggested that you use the “MaxRows” property of the provider to establish a limit to the total number of retrieved samples.

PROCESSVIEW trending has enhanced language aliasing support, including automatic value scaling. You need to configure the SMAR Language Server as well as configure language aliases in the TrendWorX OLE DB Provider connection to set the desired language settings.

# Trend Reporting

Trend reporting within TrendWorX has been updated with a new GUI featuring a Windows XP look and feel plus additional support for MonitorWorX, reporting key runtime information.

TrendWorX Reporting includes the following key features:

- Microsoft Excel reporting password support
- Microsoft Excel reporting performance tuning
- Report tag reordering
- Report time span enabled for periodic reports
- TraceWorX debug tracing support
- Enhanced expression support
- Daylight savings time S

There are, however, some things to consider. These functions are used by default (no user enabling is required). In order to convert each time stamp, users are advised to check Windows for the PC Time Zone Settings and to see if automatic daylight savings is enabled. Also, obtain the times/dates from Windows for switching over. These dates do not change (e.g. "the first Sunday of April"). Depending on previous information, the functions properly adjust the conversion time to compensate for daylight savings time.

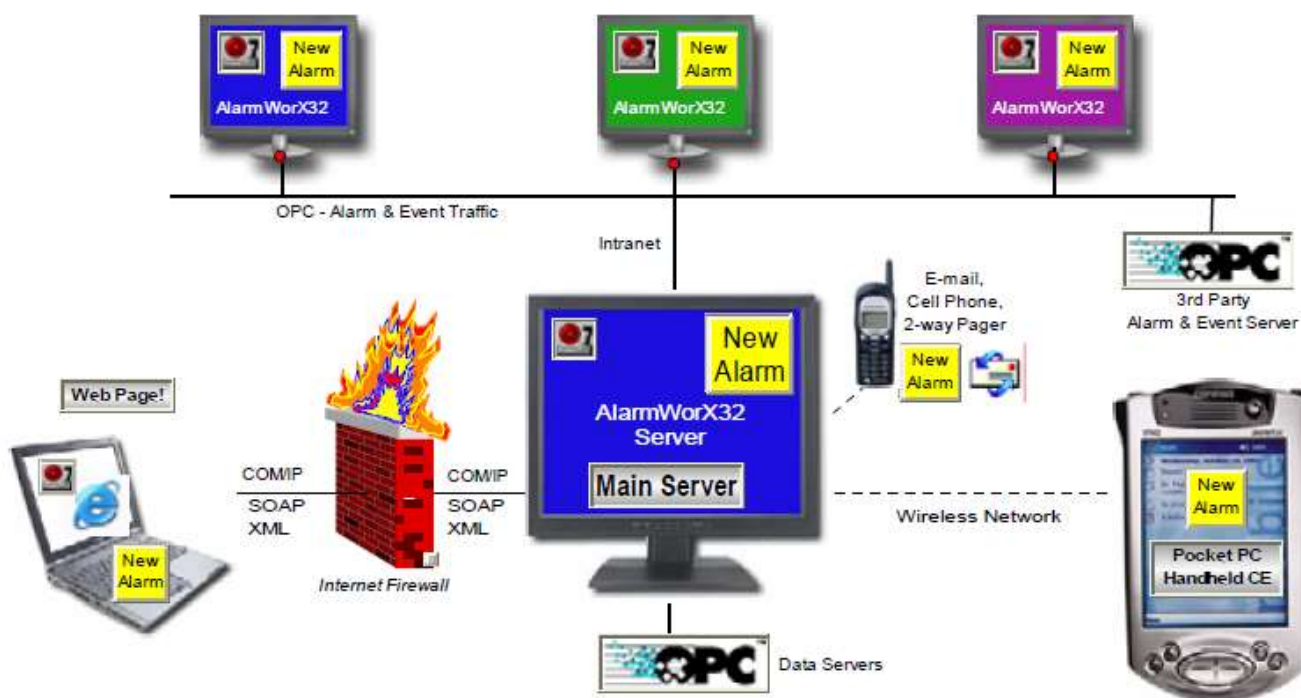
TrendWorX also includes the following features:

- Data-retrieval filters
- Scheduling and load-balancing Sup
- Microsoft Excel integration and template support
- HTML and e-mail support for Microsoft Excel-based reporting
- Unicode version Support
- Report integration to historical database, operator comments, and batch information
- Multiple database Support
- Easy-to-use report configuration wizard
- Tag column description Support

## Alarm Management – AlarmWorX™32

### AlarmWorX Overview

AlarmWorX is a distributed enterprise-wide alarm and events management system. Available in the standard PROCESSVIEW suite of application, or as a stand-alone Open Series component, AlarmWorX offers the tools you need to deliver real-time alarm information throughout your system. AlarmWorX is a family of modular alarming products, including the Alarm Container, the Alarm Server, the Alarm Logger, the Alarm Viewer ActiveX, the Alarm Report ActiveX, and the Multimedia Server. The Alarm Container is an ActiveX container capable of embedding various ActiveX components.



AlarmWorX is the first OPC-compliant alarming product based on the OPC Alarm and Events (AE) specification. It can easily “Plug and Play” not only with SMAR applications but also with other third-party OPC alarming software.

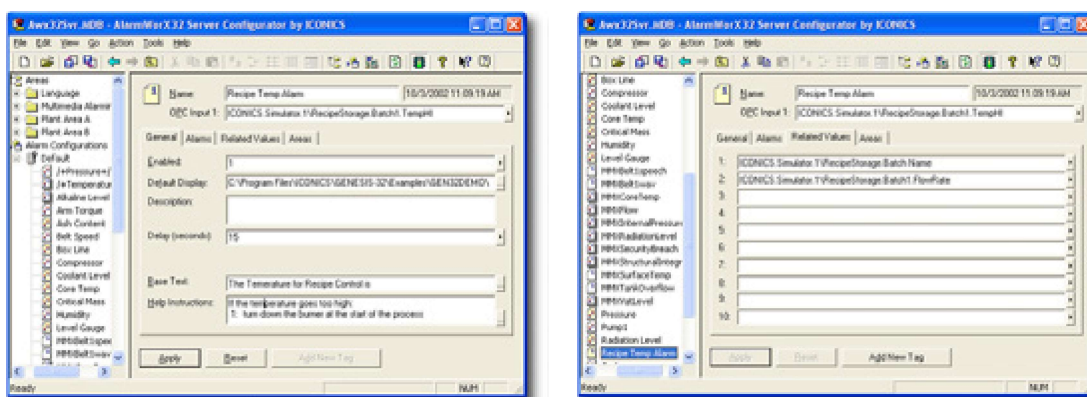
**Alarm Container** AlarmWorX delivers a “Container” application, which can host not only the Live and Historical ActiveX controls, but also other third-party controls. It also offers the rich Microsoft Visual Basic for Applications (VBA) scripting language. Use this, or other containers (e.g., GraphWorX) to fulfill your alarm viewing needs.

### Alarm Server and Server Configurator

Alarm Configuration is easy with the Alarm/Event Configurator. You can define your own alarms on any OPC data and/or expression (complex combinations of OPC data), choosing from analog limit alarms, deviation, rate-of-change, and digital alarms. In keeping with the open standards employed throughout the PROCESSVIEW architecture, your alarm configurations are saved to a Microsoft Access or Microsoft SQL Server database.

Once the alarms are configured, the OPC Alarm Server takes care of monitoring the live data, posting new alarms throughout your network. This component runs in the background (even as a Windows NT Service if desired), and is tuned to give your system the performance required of an alarming system.

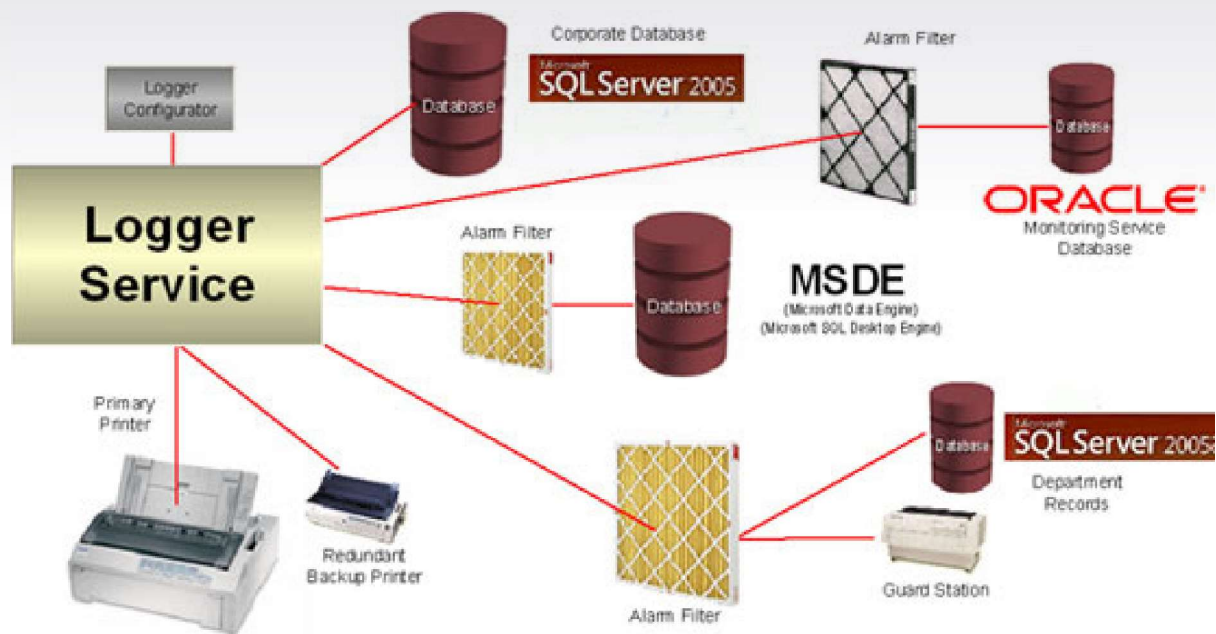
The AlarmWorX Server receives field data from any OPC-compliant Data Access (DA) server and performs alarm detection and reporting based on the OPC data sent to any OPC Alarm and Event (AE) clients that subscribe. The AlarmWorX Viewer and the AlarmWorX Logger are two examples of clients that can receive these notifications from the server.



### Alarm Logger

The AlarmWorX Logger logs alarms to Microsoft Access, Microsoft SQL Server, or Oracle databases. It also can print out the information to one or even a redundant set of printers. You can create alarm reports and calculations with Microsoft’s built in Visual Basic for Applications (VBA) scripting language. Alarm calculations can be performed on individual tags or groups of tags. Now, AlarmWorX has been enhanced for archiving to be time scheduled.

The logger can run as an executable or a service and is able to process alarm information from several alarm servers locally or over a network. The database is user-configurable (i.e. it allows autoflushing at a specified period, autostart, circular and append logging modes, etc.). Of primary importance to the database issue is performance. The logger is able to handle bursts of alarms due to the design and implementation of the logger’s database handling.



### Live Alarm Viewer ActiveX

The Alarm Viewer is a current-events alarm ActiveX. Because this component is an ActiveX, it can be placed in any ActiveX container application, such as GraphWorX, Microsoft Visual Basic, or a Web page. The Alarm Viewer displays current alarm information and handles the user interface to the alarm system (such as alarm acknowledgement). The layout of information displayed, including sort order, color, font, and displayed data, is user-configurable.

You can drop this ActiveX Control in the provided AlarmWorX Container, within any GraphWorX HMI Display, an HTML Internet/intranet-based Web page, or any other ActiveX container, and it automatically configures itself to deliver live alarms in a scrollable window. You can easily customize the view via its properties page to control the colors, fonts, columns, rows, alarm filtering, subscriptions, hot-links, etc.

**Alarm Report ActiveX** Alarms logged to a database can be a chore to sort through and analyze. The powerful Historical Alarm Analysis (Report) ActiveX solves this problem by easily creating filtered reports, pie charts, bar plots, and even exporting to custom Crystal Reports. At the click of a button, you can find out which alarm is occurring most often and see if there are certain “trouble-spots,” review downtime, and more. The Alarm Report ActiveX allows reporting (user-configured or preconfigured) and graphing of alarms. The source of the Alarm data can be live alarms, alarms previously logged by the Alarm Logger, or a combination of both. Because the Alarm Report is an ActiveX, you can drop it into the AlarmWorX Container, within any GraphWorX HMI Display, an HTML Internet/intranet-based Web page, or any other ActiveX container.

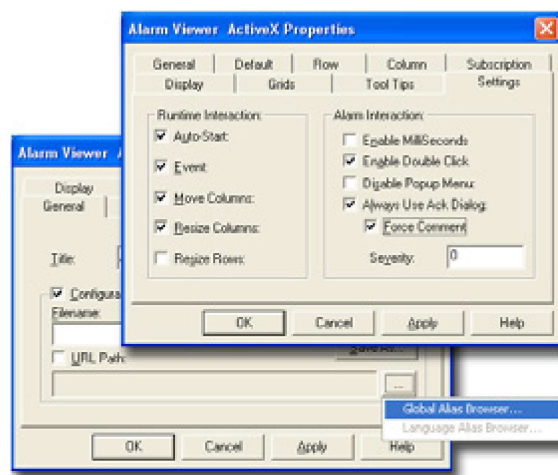
**Multimedia Server** AlarmWorX Multimedia is a distributed enterprise-wide alarm notification system that delivers real-time alarm information to you wherever you may be through various multimedia “agents,” including from e-mail, pager, fax, voice, text-to-speech, phone, and marquees. AlarmWorX Multimedia can easily “Plug and Play” not only with SMAR Alarm and Event Servers but also with other third-party OPC alarming software.

**MMX Alarm Server Configurator** Multimedia Configurator takes you through the steps to create alarm notification rules and action sets. There is even a step-by-step animated tutorial to help you configure your system. You can easily apply filters so only specific alarms trigger your multimedia announcements. When an alarm occurs, specify multiple notifications methods (e.g., page the technician, phone the supervisor, and email the QA lab.). You can also send notifications only to on-duty personnel using the built-in scheduling mechanism. Create sophisticated (yet easy-to-build) work schedules with vacation times, re-occurring patterns and more. There’s even the concept of “roles” for various personnel.

## Alarm Viewing

AlarmWorX provides the following features:

- Global (centralized) Alarm Subscriptions
- Global (centralized) Alarm Filters
- Updated GUI with Windows XP Look and Feel
- More Intuitive and feature-rich configuration
- Ability to Turn On / Off Column Headers
- Ability to Turn On / Off Scroll Bars
- Automatic row sizing
- Ability to be run by users with normal user privileges
- Redundancy aware - able to monitor alarms from redundant pairs of AlarmWorX Servers
- Support for Microsoft SQL 2005, 2008, 2012 and 2016 (Configuration and Logger databases)



## Alarm Logging

AlarmWorX Logger features an added store and forward capability, ensuring data logging integrity even when the database server or the communications to it fails. Also featured is additional support for alarm logging to Microsoft SQL Server 2005, 2008, 2012 and 2016 databases.

## Alarm Reporting

AlarmWorX Report ActiveX has received multiple additions including an updated GUI with a Windows XP look and feel, expression-based columns and an improved Animate/ Deanimate function.

# Multimedia Alarm Management

## AlarmWorX Multimedia

### AlarmWorX Multimedia Overview

AlarmWorX Multimedia (MMX) is a distributed enterprise-wide alarm notification system.

It delivers real-time alarm information to wherever you may be. Choose from Email, Voice, Text-to-Speech, Phone, Marquees and more.

AlarmWorX MMX can easily plug-n-play not only with SMAR Alarm and Event Servers, but with other 3rd-Party OPC alarming software as well.

**AlarmWorX Multimedia Standard Edition** This multimedia package connects to any OPC Alarm and/or Events server. It comes with complete multimedia agents including Paging, SMS, E-mail, Fax, Popup, Marquee, Video, Phone, and Sound.

**AlarmWorX Multimedia Lite** With the "lite" version, you'll get all the power of AlarmWorX Multimedia Standard, but with a limited set of agents. AlarmWorX Multimedia Lite comes with the following agents: Paging, SMS, E-mail, Popup and Marquee.



In addition to the new Lite version, AlarmWorX Multimedia also offers the following:

### MMX Alarm Server Configurator

Let the Configuration Wizard walk you through the steps to create alarm notification rules and actions sets. There's even a step-by-step animated tutorial to help you configure your system. Easily apply filters so only specific alarms trigger your multimedia announcements. When an alarm occurs, specify multiple notifications methods (e.g., page the technician, phone the supervisor, and email the QA lab.).

Send notifications only to on-duty personnel using the built-in scheduling mechanism. Create sophisticated (yet easy to build) work schedules with vacation times, re-occurring patterns and more. There's even the concept of "roles".



### Local Annunciation

Hear your alarm messages over a local PA system or audio speaker system. risp, clear messages announce specific instructions to operators, eliminating confusion as to which alarms are occurring. Free up personnel from having to "baby-sit" an alarm view screen, and get them into a more productive roll out on the plant floor. Choose combinations of text-to-speech and pre-recorded speech and sound to deliver your messages (even in multiple languages).



### Email

Receive alarm notification via standard email! Not only can the alarm message be sent, but you can also configure email attachments. Send screen snapshots, data files, or any other file you desire. What's more, you can even send a reply back to the alarm system and actually acknowledge the alarm throughout the system ... via email!



### Marquee

AlarmWorX Multimedia can send alarm and event messages to external scrolling marquees. There's also a software scrolling marquee, permitting your important messages to scroll across the screen of a PC, either local or someone on the network.

# Agent Library

**AlarmWorX Multimedia (MMX)** is a distributed, enterprise-wide alarm notification system that delivers real-time alarm information to you wherever you may be. Choose from e-mail, pager, fax, voice, text-to-speech, phone, software and Ethernet hardware marquees and more.

In addition to several key features, TAPI support for the Phone Agent, AlarmWorX Multimedia now comes with three new agents:

## Hardware Marquee Multimedia Agent

The functionality in the Marquee Agent has been Split into two agentes for ease of configuration and managing software desktop marquees and another agente for hardware external marquees.

## Skype Multimedia Agent

Skype is an Internet telephony company that offers telephone calling over the Internet. Using the new SMAR AlarmWorX Multimedia Skype agent, voice alarm messages can be delivered to any Skype account. Do you have a Skype account? If not, you can sign up for a free account at [www.skype.com](http://www.skype.com).

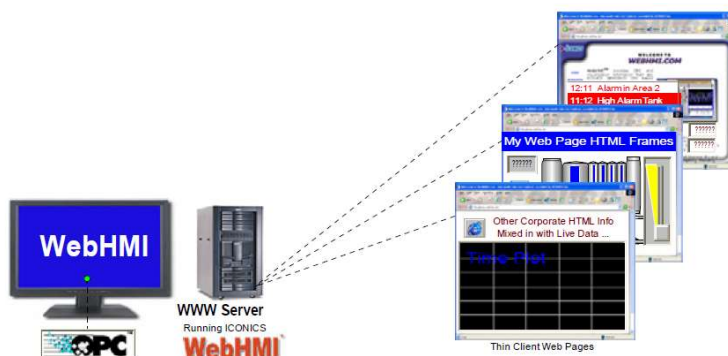
# Web and Wireless Deployment

## Web-Enabled Monitor and Control – WebHMI™

WebHMI™ is a powerful add-on to any PROCESSVIEW system, providing remote Internet or Intranet connectivity to your enterprise system. Using nothing more than a standard off-the-shelf web browser (i.e. Microsoft Internet Explorer), a remote PC can instantly browse to view live OPC and visualization information from any SMAR PROCESSVIEW product on the network.

Based on the Microsoft DNA architecture, WebHMI automatically delivers the required “plug-ins” so your browser station can be used as part of the overall network solution. Not only view, but also take control of operator real-time displays with animation, live data trends, reports and alarms. Integrate your HMI application with traditional Internet Browsers to perform remote and low cost monitoring of key manufacturing information. WebHMI comes complete with a security server tie-in so data entry and real-time interaction with your application is controlled across the system.

Real-time networking and communications with factory floor information is provided via the industry standadr OLE for Process Control (OPC). Using the SMAR GEnBroker technology, deployment of this solution is easy and effective. WebHMI makes web-based HMI/SCADA a plug-n-play operation.





# Utilities

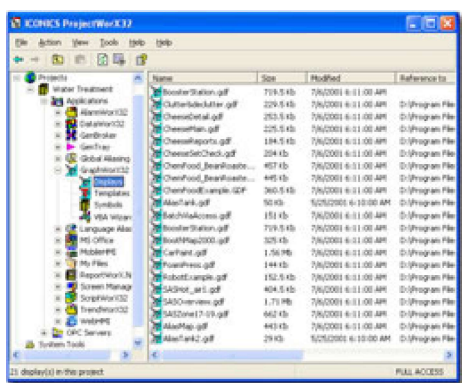
## Security Configuration Overview

PROCESSVIEW comes a powerful security server, which prevents unauthorized users from using the application. The PROCESSVIEW suite will not work if Security Server is not found or has been deleted from the computer. The installation of PROCESSVIEW Security Server comes with a default Security File that allows Maximum Rights to every one. That means that if you do not configure the security, everyone will have full rights. This is allowed for testing and configuration of an application. Once you feel comfortable with the application, you may set the users and workgroups.

## Project Management – ProjectWorX™32

PROCESSVIEW contains numerous applications with multiple components, requiring a well trained user in order to successfully create, integrate, deploy, and manage projects. Each of these components requires complex setup of many diferente types of conifguration files, dtabases, and OPC sservers, as well as runtime and security settings. To simplify the management and deployment of the broad spectrum of PROCESSVIEW applications, SMAR has instrduced ProjectWorX, a sort of “super configurator” that integrates all PROCESSVIEW applications into asingle, esay-to-manage format. The ProjectWorX user interface is basically a containter embedded in th Microsoft management Console (MMC).

The ProjectWorX console conveniently consolidates all of your PROCESSVIEW files in one asily accessible location, enabling you to: Organize all PROCESSVIEW application files into separate projects. Create new PROCESSVIEW application files and OPC server configurations. Import application files into projects. Start and stop PROCESSVIEW applications. Pack project files into a single, compressed file, and unpack project files for easy deployment to multiple computers. Activate entire projects into runtime mode. Control the layout of windows using the Screen Manager. Configure security settings to password-protect projects.



Back up project files to Microsoft Visual SourceSafe.

Search for and replace machine names and OPC tags throughout all project files using a global find/replace utility.

Control and monitor runtime functions for all applications using GenTray.

Launch PROCESSVIEW system tools.

Import and manage third-party applications.

Publish projects to the Web.

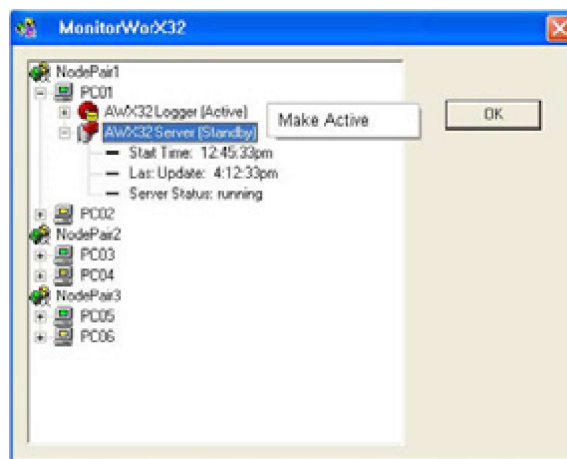
Generate comprehensive reports for all files and projects Import and manage third-party applications. (Note: For information about adding third-party applications to ProjectWorX, please contact [techsupport@smar.com.br](mailto:techsupport@smar.com.br))

# MonitorWorX

MonitorWorX provides a system-wide monitoring function via a common user interface to all SMAR System Services, License Monitoring, WebHMI User Utilization and PROCESSVIEW Application Launch and start-up capabilities. With MonitorWorX, users can quickly get application version information on local and remote nodes, as well as get valuable real-time DataWorX redundancy statistics. MonitorWorX can reside on the Windows system tray and provides a GUI for analyzing SMAR PROCESSVIEW NT services.

Information is provided via an easy-to-use GUI:

- Start and stop applications and service
- Applications total running ti
- Applications version informatio
- Redundancy Status Monitoring
- View SMAR apps from remote nodes
- DataWorX Redundancy statistics
- View WebHMI users and license information
- Ghost Image Duplicate License Detection
- System tray provides visual balloons interface



MonitorWorX V9.2 Benefits:

- Centralized Diagnostics area
- Product “Monitor View” tool for products such as ScriptWorX2010 and others
- GenTray Replacement
- Start and stop applications and services
- Provides application runtime and version information
- Provides duplicate License Detection
- Redundancy monitor
- Works with DataWorX Professional
- Provides notification of failed servers and redundancy statistics
- Tells you when connected OPC Servers become available
- System tray provides visual balloons interface
- Visualize all connections (OPC, License, Runtime)
- Provides software installation information including versions of all PROCESSVIEW components
- GenTray and MonitorWorX require Power User privileges to set up Services.

## TrendWorX

32Reporting is compliant with

# smar

NOVA SMAR S/A

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Updated address information is available on our website.

[web: www.smar.com/en/contact-us](http://www.smar.com/en/contact-us)

