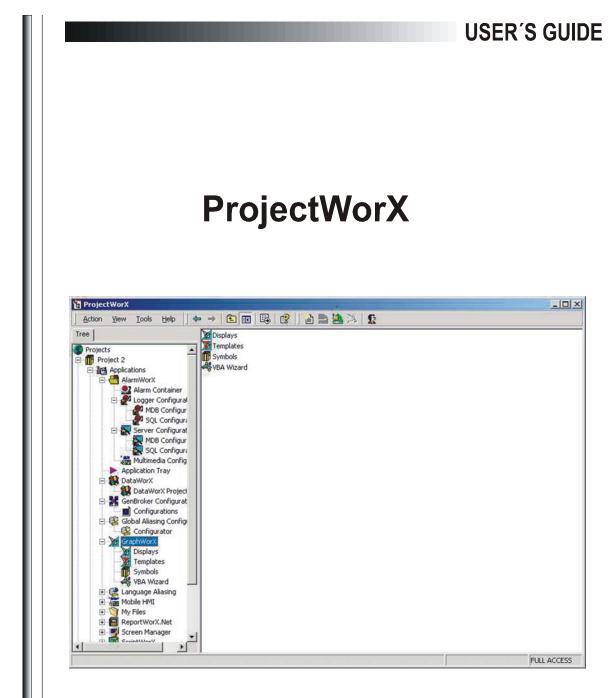
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JUN / 04 ProjectWorX VERSION 7.1





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Introduction

Overview of ProjectWorX

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 different types of configuration files, databases, and OPC servers, as well as runtime and security settings. To simplify the management and deployment of the broad spectrum of ProcessViewapplications, Smar has introduced ProjectWorX, a sort of "super configurator" that integrates all ProcessView applications into a single, easy-to-manage format. The ProjectWorX user interface is basically a container embedded in the Microsoft Management Console (MMC). The ProjectWorX console conveniently consolidates all of your ProcessView files in one easily 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.
- Publish projects to the Web.
- Control and monitor runtime functions for all applications using ProcViewTray.
- Launch ProcessView system tools.
- Generate comprehensive reports for all files and projects.
- Import and manage third-party applications. (Note: For information about the adding third-party applications to ProjectWorX, please contact <u>mailto:info@Smar.com</u>.)

Starting ProjectWorX

To launch ProjectWorX:

From the Windows Start menu, select Programs > Smar ProcessView > ProjectWorX.

The first time you open ProjectWorX, you are asked to select a folder in which the ProjectWorX database will be stored, as shown in the figure below. Browse for a projects folder, and then click **OK.**

Main Projects Folder se	lection	×	
Folder			
🔁 C:V			
🔄 Program Files			
🔄 Smar			
🔁 ProcessView			
🔁 Projects			
Drive			
🖃 c: [LOCAL] 🔽	ОК	Cancel	
Path			
C:\Program Files\Smar\ProcessView\Projects			

Main Projects Folder Selection

1. The **Smar ProjectWorX Projects** console opens in the Microsoft Management Console, as shown in the figure below. This is the main ProjectWorX console that allows you manage your ProcessView projects. This is a split window with a tree control view in the left-hand pane and a configuration view in the right-hand pane.

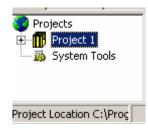
Action View Iools Help 🛛 🗢 🔿 🔁 🖬 💼 🗙 😭 🔂 😫					
) 🖆 🚔 🎘 🙎					
Tree	Name	Size	Modified		
Console Root Projects Project 1 Project 1	Applications CPC Servers ProjInfo.ini Project 1.sec Publishing Log	0 bytes 278 bytes 3.21 Kb	9/23/2002 3:04:30 PM 9/20/2001 5:06:02 PM 9/26/2002 3:23:18 PM		
			<u> </u>		
Project Location C:\Program Files\ICONICS\GENESIS-32\Bin\Prc FULL ACCESS					

ProjectWorX Console

ProjectWorX Snap-ins and Tree Control

Snap-ins are the basic components of the Microsoft Management Console. Snap-ins always reside in a console; they do not run by themselves. The ProjectWorX portion of the console contains snapins that allow you to manage and monitor your ProcessView applications. The tree control (left-hand pane) of the ProjectWorX console, shown in the figure below, provides management tools that help you organize and monitor your ProcessView applications into projects. The tree control contains the following snap-ins:

- Projects: Manages projects and files for all ProcessView applications.
- **ProcViewTray:** Monitors the status and settings for ProcessView applications and provides information about which applications are active.
- **System Tools:** Includes all the functionality available in the ProcessView tools, such as Dr DCOM, License Monitor, Screen Manager, and the Security Configurator.



Tree Control of ProjectWorX Console

Toolbars

The ProjectWorX console contains two different toolbars: the standard Microsoft Management Console (MMC) toolbar and the ProjectWorX **Snap-in** toolbar. For more information on menu command functions, please see the **Menus** section below.

MMC Toolbar

The MMC toolbar, shown in the figure below, contains the following commands (from left to right):



MMC Toolbar

- Back: Moves back to the previous level in the tree view.
- Forward: Moves forward to the next level in the tree view.
- **Up One Level:** Moves up one level in the tree view.
- Show/Hide Console Tree: Displays/hides the tree control.
- Cut/Paste: Cuts/pastes the currently selected item.
- Copy: Copies the currently selected item to the clipboard.
- Delete: Deletes the currently selected item.
- **Export List:** Exports the columns in the MMC console to a text log file. The text file contains the column headers and lists the items in each column.
- Large lcons: Displays items as large icons.
- Small Icons: Displays items as small icons.
- List: Displays items as a list.
- Details: Displays items as a list with detailed information about the items.
- Help: Launches the online Help documentation.

Snap-in Toolbar

The ProjectWorX **Snap-in** toolbar, shown in the figure below, contains the following commands (from left to right):



Snap-in Toolbar

- New Project: Creates a new project under the Projects tree of the ProjectWorX console.
- **Pack Project:** Packs the selected project (with all included application files) into a single compressed file.
- Unpack Project: Unpacks a packed project and imports the project into the ProjectWorX console.
- **Find/Replace:** Launches the global find/replace utility, allowing you to search for and replace machine names and OPC tags throughout an entire project.
- **Security Login:** Launches the Security Login Utility, which prompts for the user name and password to log into the Security Server.

Menus

The menu bar of the ProjectWorX console contains the following menus:

- Action menu
- View menu
- Tools menu
- Help menu

Note

The **Tools** menu and the **Help** menu are completely provided by the ProjectWorX snap-in. The **Action** menu contains both standard MMC commands as well as commands that are specific to ProjectWorX.

Action Menu

The **Action** menu lists the action commands available for each item and subitem in the ProjectWorX console. The **Action** menu commands vary depending on which item is selected. You can also access **Action** menu commands for each item by right-clicking the item and selecting actions from the pop-up (context) menus.

MMC Actions

The **Action** menu commands for the MMC are listed in the table below. For additional information about these commands, please see the MMC Help documentation.

MMC Action Menu Commands

Command	Function	
New Window From Here	Opens a new window from the selected root item in the tree control.	
Rename	Renames the selected item.	
Export List	Exports the columns in the MMC console to a text log file. The text file contains the column headers and lists the items in each column.	
Refresh	Refreshes the view in the right-hand pane.	
Delete	Deletes the selected item.	
Help	Launches the online Help documentation.	

Project Actions

The Action menu commands for the Projects tree are listed in the table below.

Note
You can also access Action menu commands by right-clicking items in the Projects tree.

Project Action Menu Commands

Command	Function		
New Project	Creates a new project under the Projects tree of the ProjectWorX console.		
Unpack Project	Unpacks a packed project and imports the project into the ProjectWorX console.		
Pack Project	Packs an entire project (with all included application files) into a single compressed file.		
Activation	Activates the selected project.		
Explore	Displays the current project directory in the Windows Explorer view.		

Command	Function		
Global Find/Replace	Searches for and replaces machine names and OPC tags in all the project files.		
Add File to Project	Imports an existing file into the project.		
Source Control	Provides options for archiving projects in Visual SourceSafe.		
Generate Report	Creates a comprehensive report for all files and applications in the project.		
Exit ProjectWorX	Closes the ProjectWorX console.		
Properties	Displays information about the general properties, project files, and security settings for each project.		

Application-Specific Actions

Each ProcessView application (e.g. GraphWorX, AlarmWorX, etc.) within a project contains application-specific action menus for adding and creating project files. Please see **Chapter 3** for information about managing application files.

View Menu

The View menu commands are listed in the table below.

View Menu Commands

Command	Function	
	Hides/displays columns in a detailed list.	
Choose Columns	Note: This command is only available when Detail is also selected on the View menu.	
Large Icons	Displays items as large icons.	
Small Icons	Displays items as small icons.	
List	Displays items in a list.	
Detail	Displays items in a list along with detailed information about the configuration of each item.	
Customize	Opens the Customize View dialog box, which sets the ProjectWorX console display settings.	

Hiding and Displaying Detail Columns

Selecting **Detail** from the **View** menu displays the items in the selected folder along with detailed information about the configuration of each item. In the figure below, for example, the items in the **My Project** folder in the tree control are listed in the right-hand pane of the console by **Name**, file **Size**, and the date the files were **Modified**.

Selecting **Choose Columns** from the **View** menu opens the **Modify Columns** dialog box, as shown in the figure below. The column names listed in the **Displayed Columns** list (e.g. Name, Size, and Modified) are currently shown in the details view. The column name listed in the **Hidden Columns** list (Reference to) is not shown in the details view. Click the **Add** and **Remove** buttons to move column names back and forth between the **Displayed columns** list and **Hidden columns** list.

To hide a column, in the **Displayed columns** list click the column you want to hide, and then click **Remove**. To display a column, in the **Hidden columns** list click the column you want to display, and then click **Add**. To undo a move, click the **Reset** button.

Note

Column names may vary per items in the tree control. For additional information, please see the MMC Help documentation.

3	Projects	Applications		
-	P M Applications	ProjInfo.ini	0 bytes	8/19/2002 3:48:06 PM
	GrandWor	Project 1 sec	278 hytes	9/20/2001 5:06:02 PM
	Modify Columns			<u>? ×</u>
	Hidden columns: Reference to		Displayed columns:	Ă
			Size Modified	
		Add ->		Move Up
		<-Remove		Move Down
	4	Reset	4	► ►
•				OK Cancel

Selecting Which Columns To Display in the Details View

Tools Menu

The **Tools** menu commands are listed in the table below.

Tools Menu Commands

Command	Function		
Put [Active Project] in Runtime Enters the currently active project into runtime.			
Shut Down [Active Project] Stops the currently active project. (Note: This comma available in runtime mode only.)			
Machine Startup Configuration	Configures the project startup settings for the current computer.		
Runtime Configuration	Configures the runtime layout for the selected project using Screen Manager.		
Publish Wizard	Launches the Web Publishing Utility.		
Login to SourceSafe	Opens the Microsoft Visual SourceSafe login screen.		
Prompt for Comments Enters a comment to document each Source Control action Prompt for Comments ProjecWorX32 Visual SourceSafe integration, please Chapter 5.			
Project Properties	Opens the properties for the selected project.		
Compact Database	Automatically compacts the ProjectWorX database.		
Change Database Location	Database Location Changes the folder in which the ProjectWorX database stored.		

Compacting the ProjectWorX Database

The ProjectWorX console data are stored in a Microsoft Access database file called **ProjectWorX.mdb.** ProjectWorX includes a database compacting feature that minimizes the size of this file. To minimize the size of this database, select **Compact Database** from the **Tools** menu.

Changing the Database Location

You can change the folder in which the ProjectWorX database is stored at any time by selecting **Change Database Location** from the **Tools** menu, as shown in the figure below. Browse for a projects folder, and then click **OK**.

Main Projects Folder selection	<
Folder	
🔄 C:V	
📄 🔄 Program Files	
📄 🔄 Smar	
ProcessView	
Contraction Contra	
Drive	
Cancel	
Path	
C:\Program Files\Smar\ProcessView\Projects	

Main Projects Folder Selection

Help Menu

The Help menu commands are listed in the table below.

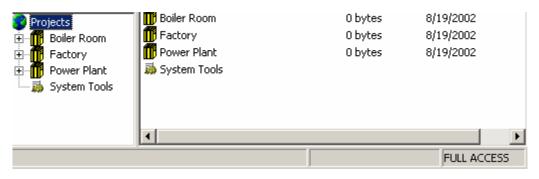
Help Menu Commands

Command	Shortcut Key	Function
Help Topics	F1	Launches the online Help documentation.
About Application		Launches the About Box , which contains information about the product version number, copyright, and available disk space. It also contains information about how to contact the company.

Using the Projects Console

Project Management

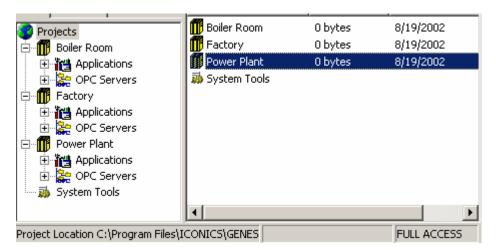
The **Projects** tree in the ProjectWorX console tree control (left-hand pane) is where you manage all of your ProcessView project files. Each time you add a new project to the ProjectWorX console, a folder is created for that project in the "Bin" directory. From this single location in the ProjectWorX console you can conveniently add existing ProcessView application files, create and launch new files, and check files into Microsoft Visual SourceSafe. As shown in the figure below, you can create multiple projects (e.g. Boiler Room, Power Plant, and Factory).



Projects Snap-in in ProjectWorX Console

Organization of Project Folders

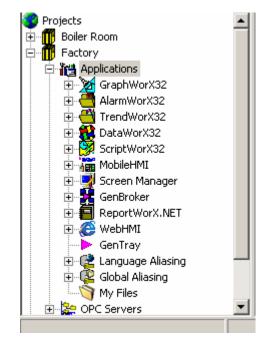
The top-level tree for each project contains two primary subtrees: **Applications** and **OPC Servers**, as shown in the figure below. Each project also contains a "ProjInfo.ini" file, which an initialization file that contains information about the project, as well as a .sec file, which is the Security Server configuration file for the project. For more information about project security, please see the **Enabling Project Password Protection** section below.



Main Projects Tree Control and Files

Application Files

The **Applications** tree for each project contains all ProcessView client applications and components, including GraphWorX, AlarmWorX, TrendWorX, DataWorX, ScriptWorX, MobileHMI, Screen Manager, GenBroker, and ReportWorX.NET, as shown in the figure below. Each of these applications has several additional modules or components (e.g. AlarmWorX Container, Logger Configurator, Server Configurator, and Multimedia Configurator).



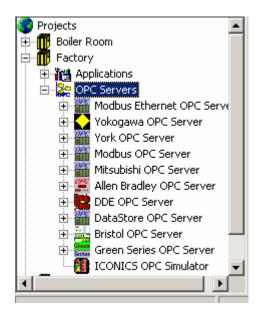
Project Applications Tree

OPC Server Configurations

The **OPC Servers** tree for each project, shown in the figure below, allows you to create and manage OPC server configurations. Each time you create a new OPC server configuration inside a project in the **OPC Servers** tree, the new file is saved to the project folder in the "Bin" directory. If you add an existing configuration file, you have the option of copying the file to the project folder or running the file from its current location.

Note

ProjectWorX currently supports configuration for the Simulator OPC Server only, which is installed with ProcessView. All other OPC servers (e.g. DataStore OPC Server, etc.) must be installed before you can configure them through ProjectWorX.



Project OPC Servers

Creating a New Project

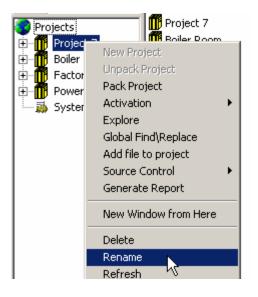
To create a new project in the ProjectWorX console:

1. Right-click the **Projects** folder in the tree control and select **New Project** from the pop-up menu, as shown in the figure below.



Creating a New Project

2. The new project appears under the **Projects** folder, as shown in the figure below. To rename the project, right-click the project name and select **Rename** from the pop-up menu, as shown in the figure below. Give the project a new name and press **Enter**.



Renaming the New Project

3. A message box appears asking you to confirm the project rename. Click **Yes** to rename the project.

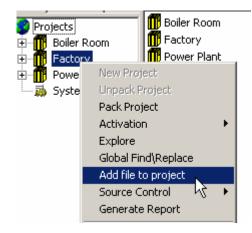
	Note				
	If you are using multiple projects and the other projects contain references to the project you are renaming, those references will be lost.				
	~				
		Are you sure you want to rename the selected Project?			
		Other Projects refering to files into this Project will loose the reference.			
		<u>Y</u> es <u>N</u> o			
Confirming the Project Rename					

Importing Files Into a Project

ProjectWorX allows you to import files (of any type) into projects. You can import single files or multiple files at once.

To add a file to a project in the ProjectWorX console:

1. Right-click the project and select Add File to Project from the pop-up menu, as shown in the figure below.



Importing a File Into a Project

2. In the Add file dialog box, choose a directory and a file to import, as shown in the figure below. Click **Open.**

Add file		<u>?</u> ×
Look jn:	Project 1 💌 🔶 📸 🖬 🕶	
History Desktop My Documents My Computer	Project 1 Project 1_GenTray ProjectWorX32 ProjInfo	
My Network P	File name: Files of type: Any file (*.*)	<u>O</u> pen Cancel

Choosing a File To Add to the Project

3. When you import a file into a project, you can copy the file to the local project directory instead of running the file from its current location. To copy the file to the project folder, click **Yes** in the message box shown in the figure below.

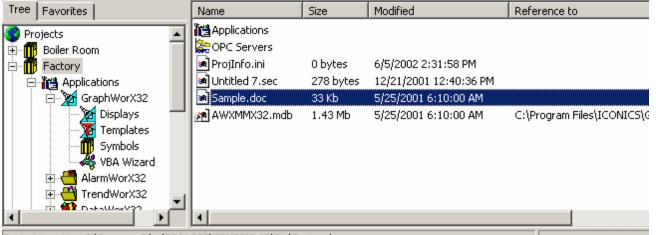
nole	
If you import a file and choose not to copy the file to the project folder, ProjectWorX rur	s the file
from its current location, and the file's directory path is indicated in the Reference to co	lumn the
right-hand pane of the ProjectWorX console.	

Not

Adding fi	le Sample.doc 🔀
٩	Do you want to make a LOCAL COPY for the selected file in the project? Otherwise a reference to the file will be used.
	Yes No

Copying the File Into the Project Folder

- **4.** The file is added to the project tree and is displayed in the right-hand pane of the ProjectWorX console, as shown in the figure below. Files added to the project have four properties:
- File name.
- File size.
- Date of the last modification.
- Reference to the directory where the file is located (if the file does not reside in the project folder).

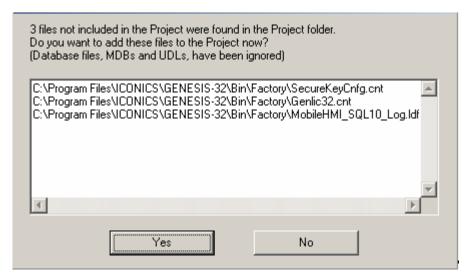


Project Location C:\Program Files\ICONICS\GENESIS-32\Bin\Factory\

Files Imported Into Project

Note

If you manually a copy file to a project folder in Windows Explorer, the next time you open that project in the ProjectWorX console ProjectWorX will detect the file and ask you whether to import the file into the project, as shown in the figure below. If you click **Yes**, the file is added to the project tree and is displayed in the right-hand pane of the ProjectWorX console. If you click **No**, the file remains in the project folder but is not imported into to the project and is not displayed in the ProjectWorX console. However, this does not apply to unpacking_log.txt, packing_log.txt and all .mdb and .udl files.



Adding Copied Files to Project

Managing Project Files

All the files in a project can be handled through a pop-up menu available by right-clicking on the file name, as shown in the figure below. The commands available for each file depend on the file type. Generic files can be opened, duplicated, renamed, deleted, etc., while the Packing Log can only be opened and deleted. Drag-and-drop and cut-and-paste functions in the ProjectWorX console are similar to those in Windows Explorer, but you can paste and drop files only between trees of the same type. For example, a GraphWorX display file from the GraphWorX tree cannot be copied to the AlarmWorX tree.

You can also make the file **Read-only** so that it cannot be modified. An additional **Add to Source Control** option allows you to check files into Microsoft Visual SourceSafe. For more information about the Source Control option, please see **Chapter 5.**

Name		Size	Modified	Reference to 🛛 🗸
Applications				
🛋 ProjInfo.ini		0 bytes	4/19/2004 4:27:28 PM	
🖻 Project 1.sec		278 bytes	12/16/2002 7:00:00 AM	
ProjectWorX32	Open Duplicat Read-or Source	nly Control jectWorX32	12/16/2002 7:00:00 AM	

Context Menu for a Generic Project File

Deleting Project Files

To delete a project file from the ProjectWorX console:

1. Right-click the file and select **Delete** from the pop-up menu, as shown in the figure below.



Deleting a Project File

2. A message box appears asking you whether to delete the file, as shown in the figure below. Click **Yes** to delete the file.

٩	Are you sure you want to remove the selected file from the project?			
	Yes	No		

Confirming File Deletion

3. A second message box appears asking you whether you want to delete the file from the disk, as shown in the figure below. If you click **Yes**, the file is deleted entirely from the project folder. If you click **No**, the folder is hidden from the ProjectWorX console but remains inside the project folder.

<u>.</u>	Do you want to delete the file from the disk as well?		
	Yes No		
Confirming Deletion of File From Project Folder			

Note Deleting a Microsoft SQL Server database configuration file from a project (e.g. for MobileHMI and AlarmWorX Multimedia) will delete it only from the project, not from SQL Server. (The .udl file will not be deleted as well.)

Renaming Project Files

To rename a project file in the ProjectWorX console:

1. Right-click the file and select **Rename** from the pop-up menu, as shown in the figure below.

Name	Size	Modified
ProjInfo.ini	0 bytes	4/19/2004 4:27:28 PM
Project 1.sec	278 bytes	12/16/2002 7:00:00 AM
ProjectWorX32.mg		12/16/2002 7:00:00 AM

Renaming a Project File

2. The file name field becomes modifiable. Type a new name for the file, as shown in the figure below. Press the **Enter** key.

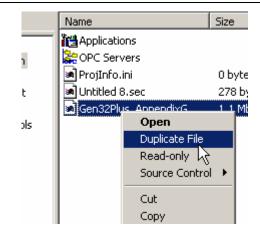


Typing a New Name for the File

Duplicating Project Files

To make a copy of a project file in the ProjectWorX console:

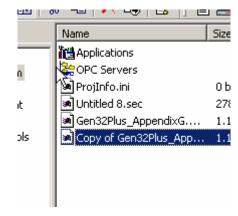
1. Right-click the file and select **Duplicate File** from the pop-up menu, as shown in the figure below.



Duplicating a Project File

2. A copy of the file appears, as shown in the figure below. You can rename the copy of the file or move the copy to a different project directory.

Note Drag-and-drop and cut-and-paste functions in the ProjectWorX console are similar to those in Windows Explorer, but you can paste and drop files only between trees of the same type. For example, a GraphWorX display file from the GraphWorX tree cannot be copied to the AlarmWorX tree.



File Copied to Project Folder

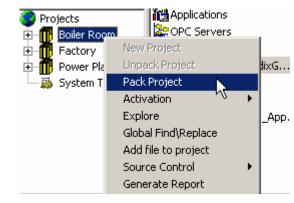
Packing and Unpacking Projects

The pack/unpack projects feature of the ProjectWorX console allows you to pack up an entire project (with all included application files) into a single, compressed file. This is especially useful for system administrators who want to configure a project and then send or copy the project to several different computers (e.g. nodes on a network). Then the packed file can be unpacked and run on each computer.

Packing Projects

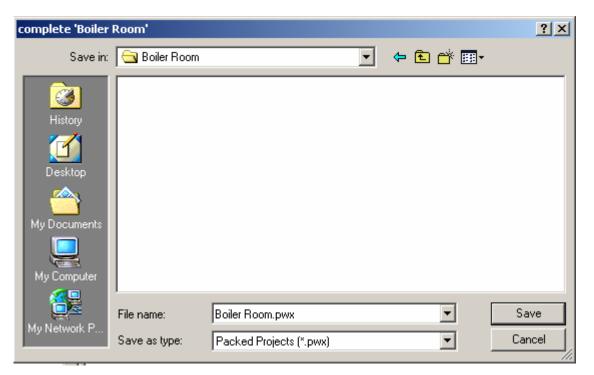
To pack a project in the ProjectWorX console:

1. Right-click the project in the tree control and select **Pack Project** from the pop-up menu, as shown in the figure below.



Packing a Project

2. Choose a directory in which to save the packed project (.pwx) file, as shown in the figure below. Give the file a name in the **File Name** field, and then click **Save**.



Saving the Packed Project

3. Once the project has been packed, a confirmation message appears, as shown in the figure below. Click **OK**.



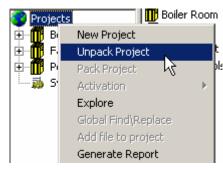
Project Successfully Packed

4. A packing log (HTML) file opens listing the packed files as well as any errors or warnings.

Unpacking Projects

To unpack (import) a packed project in the ProjectWorX console:

1. Right-click the project in the tree control and select **Unpack Project** from the pop-up menu, as shown in the figure below.



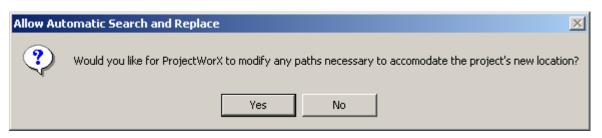
Unpacking a Project

2. Choose a packed ProjectWorX project (.pwx) file, as shown in the figure below. Then click Open.

Importing a proj	ject			<u>?</u> ×
Look in:	🔁 Bin		- 🗈 💣 🖃	
History History Desktop My Documents My Computer	 Boiler Room1 Boiler Room2 Boiler Room4 Default MDBs Dialog Factory Factory1 Factory2 FAX FontInstall images 	MMXSounds Pager Power Plant Power Plant1 Power Plant2 ProjectWorX RadFFBF9.tmp Script ScriptWizard SnapShots Topaz	☐ Untitled 1 ☐ vba ■ Boiler Room.pwx	
My Network P	File name:	Boiler Room.pwx	•	Open
	Files of type:	Packed Projects files (*.p	owx)	Cancel

Selecting a Project File to Unpack

3. You will be asked permission to modify pathways to match the new directory location of the unpacked project. If you click **Yes**, the paths will be changed. If you click **No**, the project will retain its original directory paths.



Modifying File Pathways

4. Once the project has been unpacked, a confirmation message appears, as shown in the figure below. Click **OK**.

٩	The project from 'Boiler Room.pwx' has been imported. Please refer to the log file for errors and warnings		
	ОК		

Project Successfully Unpacked

5. An unpacking log (HTML) file opens listing the unpacked files as well as any errors or warnings.

Unpacking Existing Projects

ProjectWorX includes a feature that allows you to overwrite an existing project by unpacking a newer version of that project. For example, if a system administrator makes changes to a project and needs to deploy an updated version of the project to multiple users on different network nodes, each user on each node can unpack and automatically update the project.

When you unpack a packaged (updated) version of an existing project (i.e. a project with the same name) in the ProjectWorX Console, ProjectWorX scans each file in the packaged project. ProjectWorX automatically unpacks any new files in the packaged project (i.e. files that have been added to the project since the last version). For packaged files that already exist (i.e. with the same name) inside the project, ProjectWorX also checks the date/time of the files. If the date/time of a packaged file is the same as the date/time of the existing file of the same name, nothing happens. If a packaged file is newer (i.e. more recent date/time) than the existing file of the same name, ProjectWorX automatically unpacks the newer file and overwrites the existing file. If a packaged file is of the same name, ProjectWorX warns you of this fact and gives you the option to overwrite the file.

Note

Difference unpacking of projects will not work for Microsoft SQL Server databases. When unpacking SQL-based configuration files, the files will not be overwritten even if the packed project contains newer files of the same name.

Unpacking Projects That Contain SQL Configuration Databases

ProjectWorX makes it possible to import configuration databases that reside inside Microsoft SQL Server databases. Several ProcessView applications, such as MobileHMI, AlarmWorX Multimedia, and ReportWorX.NET, use SQL configuration databases. Universal Data Link (.udl) files are used to connect to the Microsoft SQL Server database. When you unpack a project that contains a SQL Server configuration database, ProjectWorX checks to see whether SQL Server is present on the local machine, and tries to connect to the server via integrated security (thus relieving the user from to have to enter login information). If SQL Server is not present on the local machine, then ProjectWorX ask you if you want to scan the network for an instance of SQL Server, as shown in the figure below. Click **Yes** to search for a SQL Server.

ProjectWorX

ProjectW	/orX32 Message
⚠	ProjectWorX32 cannot locate a registered instance of SQL Server. Do you want to scan the network for any instance of SQL Server available?
	Yes No

ProjectWorX Searching for Available SQL Server

In the **SQL Server Login** dialog box, select a server from the drop-down list and enter your login ID and password (if applicable). Then click **OK**.

SQL Server Log	jin	×
Server:	(local)	• ОК
🔽 Use Trustee	d Connection	Cancel
Login ID:	Administrator	Help
Password:		Options >>

Changing the SQL Server

ProjectWorX checks to see if any existing databases have the same as the database being unpacked. If so, you are prompted to change the database name prior to unpacking, as shown in the figure below. To continue unpacking the project, enter a new name for the database and then click **OK**. To discontinue unpacking, click the **Skip** button.

🐂 New Database Name		×
A database named 'ScriptWorX_Datat Server. Please input another name or s		
New Name		
New_Database		
	Ok	Skip (Don't unpack)

Renaming a SQL Server Configuration Database

Log Files for Packed and Unpacked Projects

When projects are packed or unpacked, a packing log or an unpacking log is created in the project folder, as shown in the figure below. These files contain useful information about what has been packed\unpacked, including any errors and warnings issued during the process.

Note Any referenced files in a project are also packed/unpacked. When unpacking the project, all the referenced files (which are listed with a warning in the packing log file) are placed in the same location as they were initially. ProjectWorX tries to recreate the locations necessary for referenced external files (i.e. files that are located in a directory outside the project folder). Referenced files that are located in a subfolder within the project folder are unpacked into the subfolder.	
referenced files (which are listed with a warning in the packing log file) are placed in the same location as they were initially. ProjectWorX tries to recreate the locations necessary for referenced external files (i.e. files that are located in a directory outside the project folder). Referenced files	Note
	referenced files (which are listed with a warning in the packing log file) are placed in the same location as they were initially. ProjectWorX tries to recreate the locations necessary for referenced external files (i.e. files that are located in a directory outside the project folder). Referenced files

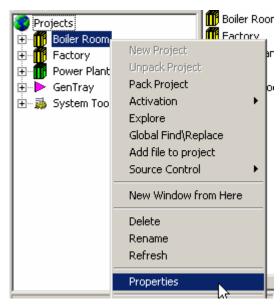
	Name	Size	Modified
_	Applications		
	CPC Servers		
	🖻 ProjInfo.ini	0 bytes	4/22/2002 4:43:18 PM
	🔄 Untitled 4.sec	278 bytes	12/21/2001 10:40:36 A
	🐴 Packing Log	1.69 Kb	5/7/2002 4:41:42 PM
	🔄 Unpacking Log	1.12 Kb	5/20/2002 5:17:20 PM

Packing/Unpacking Log Files in Project Folder

Viewing Project Properties

To view or change the settings for a project in the ProjectWorX console:

1. Right-click the project in the tree control and select **Properties** from the pop-up menu, as shown in the figure below.



Viewing the Project Properties

- 2. This opens the Properties dialog box for the project, which contains the following tabs:
- General
- Summary
- Project Files
- Password Protection

General Tab

The **General** tab of the project **Properties** dialog box, shown in the figure below, contains the following fields.

ProjectWorX

Proj	ect 1 Properties		? X
G	eneral Summary Pr	roject Files Password Protection	- 1
	Project Name		-
	Name :	Project 1	
	Location :	C:\Program Files\Smar\ProcessView\Projects\Project 1	
	- Project Information -		
	Title :		
	Project Ver. :	ProjectWorX32 Ver. 7.1.118	
	Date :	4/19/2004 Time : 4:27:25 PM	
		OK Cancel Apply H	elp

Project Properties: General Tab

• Name: Displays the project name as it is shown in the **Projects** tree of the ProjectWorX console.

Note You cannot rename the project in the **Properties** dialog box. To rename a project, you must rightclick the project in the **Projects** tree of the ProjectWorX console and select **Rename** from the popup menu.

- **Location:** Displays the directory path for the project folder.
- **Title:** Optional field used to describe the project or to provide an alternate or expanded name for the project.
- **Project Version:** If you have multiple revisions of the project, you can give each revision a version number.
- **ProjectWorX Version:** Displays the ProjectWorX version number with which the project was created. (This is important for compatibility with future ProjectWorX versions.)
- Date: Displays the reference date for the project.
- **Time:** Displays the reference time for the project.

Note

The **Project Version**, **Date**, and **Time** fields are completely modifiable, and there are no restrictions on the data formats.

Click the Apply button to save any changes to these fields.

Summary Tab

The **Summary** tab of the project **Properties** dialog box, shown in the figure below, contains the following fields.

Proj	ect 1 Properties		<u>? ×</u>
G	eneral Summary Project File	s Password Protection	
	Summary Project Author :		
	Last Modification By :		
	Last Modification Timestamp	4/19/2004 4:59:29 PM	
	Comments :		V
		OK Cancel	Apply Help

Project Properties: Summary Tab

- Project Author: Name of the person who created the project.
- Last Modification By: Name of the person who made the most recent change to the project.
- Last Modification Timestamp: Every time a change is made to the project (e.g. adding or removing a file), this field automatically displays the time and date of the change.
- Comments: Provides a blank field for user comments or project descriptions.

Click the **Apply** button to save any changes to these fields.

Project Files Tab

The **Project Files** tab of the project **Properties** dialog box, shown in the figure below, contains three columns: Status, File Name, and File Type.

ProjectWorX

Status	Filename	File Type
Present	C:\Program Files\Smar\ProcessView\Projects\Project 1\Projl	Generic files
Present	C:\Program Files\Smar\ProcessView\Projects\Project 1\Proje	Generic files
Present	C:\Program Files\Smar\ProcessView\Projects\Project 1\Proje	GenTray
Present	C:\Program Files\Smar\ProcessView\Projects\Project 1\Proje	Generic files
•		
		Refresh List

Project Properties: Project Files Tab

The Status column indicates the following general status of the project files as follows:

- **Present** (in green type): The file is found in the directory path indicated in the **File Name** column.
- **Missing** (in boldface red type): The file cannot be found in the specified path. If any files are missing, a warning message is displayed (in boldface red type) in the lower left indicating the number of broken (missing) file links in the project.

If you add a SQL database (e.g. MobileHMI or ReportWorX.NET configuration database), you could have other states reflecting the database status:

- Can't login: The database exists, but the user does not have the access rights to log in into it.
- Offline: Database is currently offline.
- Loading: Database is currently loading.
- Recovering: Database is recovering.
- Suspect: Database is suspect and then offline.
- Unreachable: Database is not available because of an unknown error.

The **File Name** column lists the directory path and name for every file in the project (regardless of the file status).

The **File Type** column provides information about the file type (e.g. GraphWorX display, AlarmWorX container, etc.).

Clicking the **Refresh List** button allows you to dynamically update the files list without having to close and reopen the **Properties** dialog box (i.e. when trying to resolve broken links).

Password Protection Tab

The **Password Protection** tab of the project **Properties** dialog box, shown in the figure below, is used to set the password for each project. This password protects the project from being:

Accessed through ProjectWorX.

• Unpacked into ProjectWorX.

The project password protection is disabled by default, as shown in the figure below.

Note	
The project files on the hard drive and the project folder are NOT protected by this password.	
Project 1 Properties	×I
General Summary Project Files Password Protection	
Password protection is disabled	
	Ш
	П
Old Password:	Ш
New Password:	
Repeat Password:	
	Ш
	Ш
	П
OK Cancel Apply Help	

Project Properties: Password Protection Tab

Enabling Project Password Protection

To enable password protection for a project, in the **Password Protection** tab of the project **Properties** dialog:

- 1. Type a password in the New Password field.
- 2. Retype the password in the Repeat Password field.
- 3. Click the Apply button.
- 4. The password is now enabled, and a message appears stating: "This project is password protected," as shown in the figure below. Click **OK**.

Note

Passwords are case-sensitive. Once password protection is enabled, the user must also provide the **Old Password** when changing the password.

ProjectWorX

Project 1 Properties	<u>? ×</u>
General Summary Project Files Password Pr	otection
This project is password protected	
Old Password:	
New Password:	
Repeat Password:	
OK	Cancel Apply Help

Enabling Project Password Protection

Once a project is password-protected, the project's protected status is indicated by a red circle with a slash through it, as shown in the figure below. The next time you try to access the project, you are prompted to enter the password, as shown in the figure below. Enter the password and click **OK** to gain access to the project.

			
Boiler Room	Factory	Power Plant	System Tools
Insert the	access passy	vord for the Proje	ct
Password:			
	lk	Cancel	

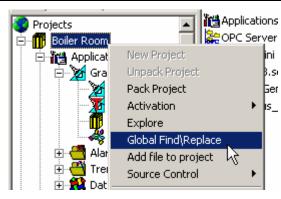
Logging Into a Password-Protected Project

Using the Global Find and Replace Utility

The **Global Find/Replace Utility** in ProjectWorX provides a project-wide function to search for and replace machine names, OPC tags, and trend pens throughout all files in a project. The utility applies only to files included in the specified project folder.

To use the Global Find\Replace Utility:

1. Right-click a project in the **Projects** tree of the ProjectWorX console and select **Global Find/Replace** from the pop-up menu, as shown in the figure below.



Starting the Global Find/Replace Utility

 The Global Find\Replace Utility dialog box opens, as shown in the figure below. This dialog is similar to the Change Host Name Utility in WebHMI. You can choose the project folder by clicking the button to the right of the Working Directory field.

💫 Smar ProjectWorX	
Replace Search	File Types
Find what: localhost Node Replace with: EST616 Node	 Basic Html Pages (.html; .htm;) GraphWorX Html Pages (.html; .htm;) Text Files (.txt) GraphWorX Displays (gdf) GenBroker Configurator (gbc) DataWorX (dwx) TrendWorX Configurator (.mdb) AlarmWorX Server (.mdb) AlarmWorX Server (.mdb)
 Match case Match Whole Word (where Applicable) 	Image: AlarmWorX Multimedia (.mdb) Image: AlarmWorX Logger (.mdb)

Global Find/Replace Utility

- 3. Choose the type of file to search for by clicking on the check boxes in the **File Types** column, as shown in the figure above. Functioning like any "find-and-replace" command, the Global Find/Replace Utility in ProjectWorX searches the following file types:
- HTML pages
- Text files
- GraphWorX displays
- TrendWorX Viewer
- AlarmWorX Viewer
- GenBroker
- DataWorX
- TrendWorX Configurator configuration database
- AlarmWorX Server configuration database

- AlarmWorX Logger configuration database
- AlarmWorX Multimedia configuration database
- MobileHMI configuration database
- Language Aliasing Configurator configuration database (Unicode version only)
- Global Aliasing Configurator configuration database
- ReportWorX.NET configuration database
- OPC Server configurations
- Microsoft Excel spreadsheets
- 4. The Global Find/Replace Utility searches for the text typed in the **Find what** field and replaces it with the text typed in the **Replace with** field, as shown in the figure below.

Find what:	
localhost	
Replace with:	
www.myserver.com	
🔲 Match case	MS Network
🔽 Node name only	O DNS
	O IP Address

Specifying Search Parameters

- 5. Choose from the following search parameters:
- Match case: Performs a case-sensitive search.
- Node name only: Uses Find String and Replace String and adds "\\" or "//" at the beginning and "\" or "/" at the end of these strings. This confirms that you have really replaced network node (machine) names. You can modify the AlarmWorX files and GenBroker Configuration files only by selecting Node name only. There is no other text information that you can change. The check boxes for the AlarmWorX and GenBroker Configuration files are grayed out if the Node name only check box is not checked. Thus, when you uncheck Node name only, you can use the Global Find/Replace Utility to change, for example, a point name in GraphWorX displays and TrendWorX files at the same time. You must then enter the original name in the Find What field and the new name in the Replace with field.
- 6. The three radio buttons (MS Network, DNS or IP Address) allow you to change the name or address in the **Replace with** field. A node name or IP address appears in the **Replace with** field if you select one of these options, as shown in the figure below.

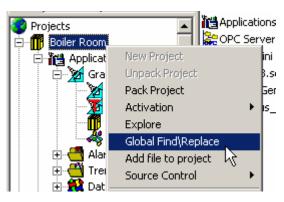
MS Network
D DNS
DIP Address

Microsoft Network Option

Using the Global Search Feature

In addition to the find/replace function, ProjectWorX allows you to perform a basic search operation (e.g. for an OPC tag) across files in a project. An example search is described below:

- 1. Create one or more GraphWorX displays in a project.
- 2. For each display, map one or more tags to a simulated tag, such as "gfwsim.ramp.long."
- 3. Right-click on the project and select **Global Find/Replace** from the pop-up menu, as shown in the figure below.



Starting the Global Find/Replace Utility

4. This opens the find/replace dialog box. Click on the **Search** tab, as shown in the figure below, and type "gfwsim" in the **Find what** field. Click the **Search** button.

ProjectWorX

Smar ProjectWorX	×
Replace Search	File Types
	📔 🗹 Basic Html Pages (.html; .htm;) 📃 🔺
	GraphWorX Html Pages (.html; .htm;)
Find what:	🗹 Text Files (.txt)
localhost Node	🛛 🗹 GraphWorX Displays (gdf)
	🛛 🗹 TrendWorX Configurator (.mdb)
	🛛 🗹 AlarmWorX Server (.mdb)
	🛛 🗹 AlarmWorX Multimedia (.mdb)
	🗹 AlarmWorX Logger (.mdb)
	🛛 🗹 Language Aliasing Configurator (.m
- u.u	Modbus Ethernet OPC Server (.mdb)
Match case	🗹 York OPC Server (.mdb)
Match Whole Word	Modbus OPC Server (.mdb)
(where Applicable)	🛛 🗹 Mitsubishi OPC Server (.mdb)
	🛛 🗹 Global Aliasing Configurator Configu 💌
	<u>Search</u>

Performing a Global Search

5. The Search Results dialog box appears, as shown in the figure below. This dialog lists all GraphWorX displays (file name, file type, and directory path) in the project that contain the search parameter "gfwsim." Double-clicking on any of these displays will launch the display.

	<u> </u>	Note
		s an example. The global search feature works for a side of the Search dialog box.
		olde et the estatent dialog som
Search Results	;	X
Documents Contain	ing the String gfw:	im
File Name	File Type	Full Path
🔀 Display1.gdf	DisplayGWX	C:\Program Files\ICONICS\GENESIS-32\Bin\Boiler Roc
🔀 Display2.gdf	DisplayGWX	C:\Program Files\ICONICS\GENESIS-32\Bin\Boiler Roc
🏂 Display3.gdf	DisplayGWX	C:\Program Files\ICONICS\GENESIS-32\Bin\Boiler Ro
•		
		Close Print

Viewing the Global Search Results

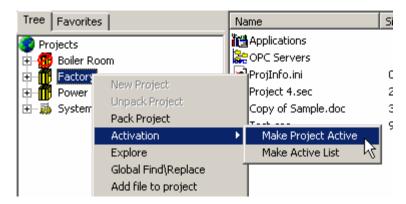
Activating and Running Projects

The ProjectWorX console enables you to create and manage multiple ProcessView projects, each of which may contain many different types of application files. Only one project can be put into runtime mode at a time. In order to enter a project into runtime mode, you must first designate the project as the currently active project. When you make a project active in the ProjectWorX console, all the connected included databases that are active for the project and all the settings to properly set up the ProcViewTray are "made active" on the current machine. If there are multiple configuration databases for a single application within the active project, only the active database for that application will enter runtime mode.

Making a Project Active

To make a project active in the ProjectWorX console:

1. Right-click the project in the tree control and select **Activation > Make Project Active** from the pop-up menu, as shown in the figure below.



Making a Project Active

2. A dialog box appears confirming that the project is now active, as shown in the figure below. This dialog box provides a final report after activating the project. Click **OK**.

 Note

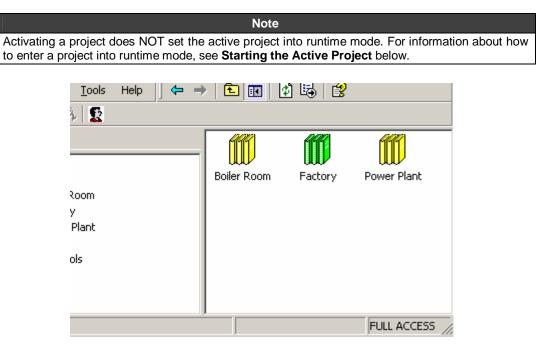
 You can also view the activation report at any time by choosing select Activation > Make Active

 List from the pop-up menu, as shown in the figure above. Click Print if you want to print out the activation report.

🏇 Smar ProjectWorX	×
The project Project 1 is now Active	
- Active GenBroker Configurator Configuration . Configuration : Using default OLExpress Communication	A
	₹ F
OK Print	

Project Activation Confirmed in the Activation List

3. The icon for the project is now green to indicate that it is the currently active project, as shown in the figure below.



Active Project Indicated by Green Icon in ProjectWorX Console

Starting the Active Project

Once you have activated a project, you can enter the entire project into runtime by selecting **Put** [Project Name] in Runtime from the Tools menu, as shown in the figure below. The name of the currently active project appears in the Tools menu command. In the example shown below, the project called "Factory" is the currently active project, so selecting **Put 'Factory' in Runtime** from the **Tools** menu enters the project into runtime mode.

1	Tools Help ← → 1 🔁 🖪	j 🚯	B 😫	
2	Put 'Factory' in runtime			
	Machine Startup Configurations			
	Runtime Configuration			
•	Publish Wizard	m	Factory	Power Plant
٢R	Login to Source Safe			
prγ w L	Prompt for Comments			
er l	Project Properties			
οc	Compact Database			
				FULL ACCESS

Starting the Active Project

Stopping the Active Project

To take the active project out of runtime mode, select **Shut Down [Project Name]** from the **Tools** menu, as shown in the figure below. The name of the currently running, active project appears in the **Tools** menu command. In the example shown below, the project called "Factory" is the currently running active project, so selecting **Shut Down 'Factory'** from the **Tools** menu stops the project.

	Tools Help	🖪 🕽
	Shut down 'Factory'	
h	Machine Startup Configuration	
R	Runtime Configuration Publish Wizard	
и И И И	Login to Source Safe V Prompt for Comments	
	Project Properties	
	Compact Database	
	🥰 VBA Wizar AlarmWorX32 TrendWorX32	

Stopping the Active Project

Machine Startup and Project Runtime Settings

In the **Tools** menu, particular attention must be given to the Machine Startup Configuration. Selecting **Machine Startup Configuration** from the **Tools** menu opens the **Machine Configuration for the Active Project** dialog box, as shown in the figure below. These startup settings apply to the computer on which the active ProjectWorX project is currently running. This means that the dialog startup settings are applied to the currently active project for that computer. Thus, if the active project changes after some of these settings have been decided, then the settings will automatically be applied to the newly activated project.

Machine Configuration for the Active Project	×
Project Startup Configuration	_
Place a "Project Startup" icon on the Desktop	
Do not automatically start the Active Project	
O Start Active Project when the current user logs in	
Start Active Project when any user logs in	
O Start Active Project with unattended login	
Cancel Apply <u>H</u> elp	

Machine Startup Settings

Checking **Place a "Project Startup" icon on the Desktop** creates a shortcut to the ProcViewTray application on your computer's desktop. ProcViewTray is used to launch ProcessView applications from the Windows taskbar.

The following runtime options are available for the active project:

- Do not automatically start the Active Project: When selected, the active project must be started manually by choosing Put [Active Project] in Runtime from the Tools menu.
- Start Active Project when the current user logs in: When selected, the active project is entered into runtime mode when the current user logs into the Security Server.
- Start Active Project when any user logs in: When selected, the active project is entered into runtime mode when any user logs into the Security Server.
- **Start Active Project with unattended login:** When selected, the active project is entered into runtime mode even if no one logs into the computer.

Generating Reports

ProjectWorX allows you to automatically create HTML reports by simply selecting a menu from the ProjectWorX console. From any point in the ProjectWorX tree, you can right-click on an item and select **Generate Report** from the pop-up menu, as shown in the figure below. An HTML report of all applications at or below the selected item will be generated. The report lists any files, if they exist, in a table along with their sizes and dates modified. The closer to the root that one generates a report, the more items the report will cover. For example, clicking the GraphWorX tree will generate a report that covers displays, templates, and symbols. Clicking the Applications tree will generate a report that covers every application, including its respective components, under the Applications tree.

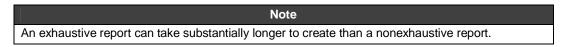
To create a report:

1. Right-click an item in the ProjectWorX console tree control and select **Generate Report** from the pop-up menu, as shown in the figure below.



Creating a Report

2. A message box will ask whether to generate an **Exhaustive** report, as shown in the figure below. If you select **No**, then the report will not go any further than reporting the files contained within the tree. If you select **Yes**, then the report will find all OPC tags within GraphWorX displays, TrendWorX configuration databases, and Alarm Server configuration databases and list them below each respective item listed in the report.



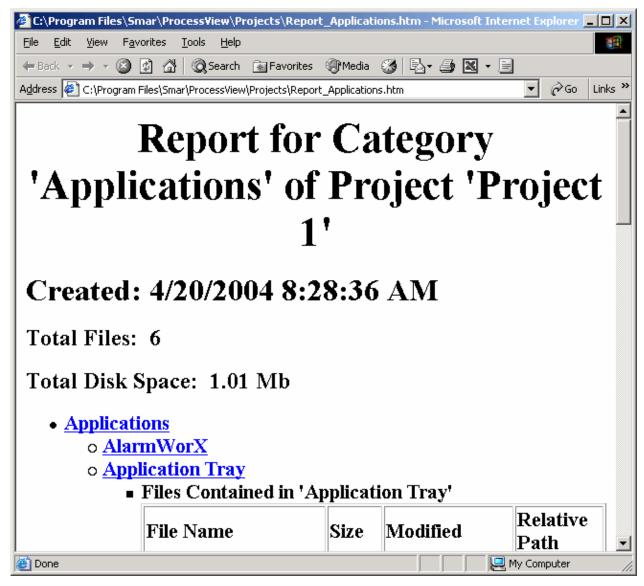
Exhaustiv	e Report?
?	Do you want an exhaustive report? An exhaustive report will list tags contained within GraphWorX displays and various configuration files. This could take some time
	<u>Yes</u> <u>N</u> o

Exhaustive Report

3. A report for the selected item is generated in an HTML file, as shown in the figure below. This particular report was generated by selecting **Generate Report** at the root of the **Applications** tree for a project called "Factory." Each tree item underlined in boldface blue type can be clicked to expand/contract its child branches. (Items will not be expanded, however, if they have no children. For example, there may be no GraphWorX displays, and therefore, clicking on "Displays" will do nothing.) The top of the report contains a title, a date, and summary information on the number of files and total size of all items in the project.

In an exhaustive report, all of the OPC tags contained within a display are shown under the appropriate display files. In this case, clicking on a file name will collapse the tags seen, and clicking on it again will expand those tags.

Note Any files that are in the project, but physically missing, will appear in boldface red type.



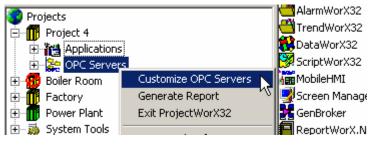
HTML Report Generated

Customizing the Projects View

You can customize the appearance of the tree control for each project by choosing which **Applications** or **OPC Servers** to display and the order in which to display them.

To customize the projects view:

1. Right-click the **Applications** tree or the **OPC Servers** tree and select **Customize** from the popup menu, as shown in the figure below.



Customizing the Projects View

2. This opens the Show/Hide dialog box, as shown in the figure below. The checked items currently appear in the ProjectWorX console. To hide an application from the tree control, simply uncheck the item in the dialog box. If the Make Default for All New Projects check box is checked, the Show/Hide settings will be automatically be applied to all new projects created thereafter. Click OK.

OPC Servers
🗹 ICONICS OPC Simulator
Green Series OPC Server
Bristol OPC Server
DataStore OPC Server
DDE OPC Server
2 Allen Bradley OPC Server
Mitsubishi OPC Server
Modbus OPC Server
York OPC Server
Yokogawa OPC Server Modbus Ethernet OPC Server
Use only Installed OPC Servers
Make Default for all new Projects
OK Cancel <u>H</u> elp

Choosing Which Applications to Hide/Display

Note

You have the option of displaying the Microsoft **(MS)** Office tree. This tree manages files for Microsoft Word, Microsoft PowerPoint, Microsoft Excel, and Microsoft Access. When enabled in the Show/Hide Applications dialog box, the MS Office tree is displayed under the project Applications tree.

Note

By default, only currently installed OPC servers are displayed in the **OPC Servers** tree of the ProjectWorX console. To disable this default setting, uncheck the **Use Only Installed OPC Servers** check box in the **Show/Hide OPC Servers** dialog box, as shown in the figure above.

Adding Custom Items to the Projects Tree

ProjectWorX has the ability to detect and add additional products to either the "Applications" node or the "OPC Server" node in a project. Adding additional products, however, requires that one supply the appropriate icons and string constants to ProjectWorX. Moreover, one must supply custom code to interface with the application being added (how to launch the application, how to perform custom actions, etc, Boolean values for which custom actions are supported, etc.) Smar has a Microsoft Visual C++ plug-in, serving as a "New Workspace" wizard, that generates a skeleton workspace which, when compiled, will add a custom application to ProjectWorX. This feature is not provided with the standard ProcessView 7.0 installation. Please contact Smar Tech Support for more information on this custom application toolkit.

Managing Application Files

Overview of Application Folders and Files

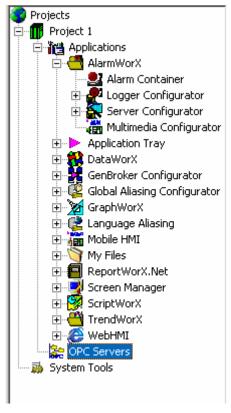
The top-level tree for each project in the ProjectWorX console contains two primary subtrees: **Applications** and **OPC Servers.** The **Applications** tree for each project, shown in the figure below, contains all ProcessView client applications and components, as shown in the figure below:

- AlarmWorX
- DataWorX
- GenBroker
- ProcViewTray
- Global Aliasing
- GraphWorX
- Language Aliasing (Unicode version only)
- Microsoft (MS) Office
- MobileHMI
- My Files
- ReportWorX.NET
- Screen Manager
- ScriptWorX
- TrendWorX
- WebHMI

Each of these application trees has several additional modules or components. For example, the AlarmWorX tree contains files for the AlarmWorX Container, Logger Configurator, Server Configurator, and Multimedia Configurator.)

Note

For detailed information about each application, please see the application's Help file.



Project Applications Tree

Adding and Creating Application Files

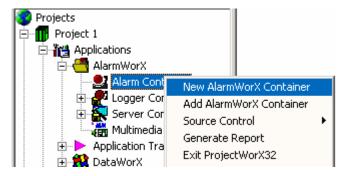
The **Applications** tree in the ProjectWorX console allows you to manage your ProcessView projects by adding or creating new files for each application component.

Creating a New Application File

Each time you create a new application file inside a project in the **Applications** tree of the ProjectWorX console, the new file is saved to the main project directory. Although the file types vary with each ProcessView application (e.g. display files, Microsoft Access configuration databases, etc.), the following method for creating new application files is the generally the same for each application in the ProjectWorX console. An example is shown below using the AlarmWorX Container:

Note
Microsoft SQL Server configuration files are handled differently. Please see "Adding a SQL Server Configuration Database to a Project" below for more information.

1. Right-click the desired component (e.g. Alarm Container) in the application tree (e.g. AlarmWorX) in the ProjectWorX console and select **New [File Type]** (e.g. New AWX Container) from the pop-up menu, as shown in the figure below.



Creating a New Application File in a Project

2. Give the new file a name, as shown in the figure below. Click **OK**.

Type the name for the new file	OK
	Cancel
Alarm1.a32	

Naming the New File

3. The new file appears in the component tree (in this case Alarm Container) and is displayed in the right-hand pane of the ProjectWorX console, as shown in the figure below. ProjectWorX automatically launches the new file in the selected application (Alarm Container).

Tree	Name	Size	Modified	Referenc
Projects	Alarm1.a32	9.5 Kb	12/16/2002 7:00:00 AM	
🖻 📲 Project 1				
🔁 🛗 Applications				
🖻 🚰 AlarmWorX				
🛃 Alarm Container	1			

File Added to Application Component Tree in Project

Adding an Application File to a Project

When you add an existing application file to a project in the **Applications** tree of the ProjectWorX console, you have the option of copying the file to the project folder or running the file from its current location. Although the file types vary with each ProcessView application, the following method for adding existing application files is the generally the same for each application in the ProjectWorX console.

	Note		
The method for adding Microsoft A method for adding application files.	Access configuration	databases is genera	Ily the same as the

An example is shown below using the AlarmWorX Container:

1. Right-click the project and select Add [File Type] from the pop-up menu, as shown in the figure below.



Adding an Existing Application File to a Project

2. In the Add file dialog box, choose a directory and a file to import, as shown in the figure below. Click Open.

AddAlarmWorXc	ontainer			<u>?</u> ×
Look in:	🔁 Alarm Contain	er 💌	🗢 🗈 💣 🎫	
History Desktop My Documents My Computer	Alarm1			
	File <u>n</u> ame:		•	<u>O</u> pen
My Network P	Files of type:	AlarmWorX container (*.a32)	•	Cancel

Choosing an Application File to Add to the Project

3. When you add an existing application file to a project, you can copy the file to the local project directory instead of running the file from its current location. To copy the file to the project folder, click **Yes** in the message box shown in the figure below. Otherwise click **No** to run the file from its current location; the file's directory path is referenced in the right-hand pane of the ProjectWorX console.



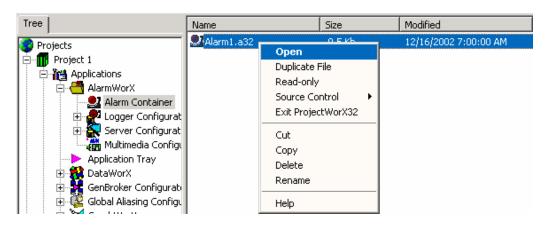
Copying the Application File Into the Project Folder

4. The file appears in the component tree (in this case Alarm Container) and is displayed in the right-hand pane of the ProjectWorX console, as shown in the figure below.

	Name	Size	Modified
🖻 🎁 Applications 🔄	🚺 🛃 Alarm 1. a 32	22 Kb	5/1/2002 1:48:16 PM
	AlarmSample.a32	27 Kb	5/25/2001 6:10:00 AM
🖻 🚰 AlarmWorX32			
- 🥐 Logger Configurator	11		
Server Configurator			
🗄 🖰 TrendWorX32			

File Added to Application Component Tree in Project

5. To launch the application file, either double-click the file or right-click the file and select **Open** from the pop-up menu, as shown in the figure below.



Opening an Application File

Adding a SQL Server Configuration Database to a Project

ProjectWorX makes it possible to import configuration databases that reside inside Microsoft SQL Server databases. Several ProcessView applications, such as MobileHMI, AlarmWorX Multimedia, and ReportWorX.NET, use SQL configuration databases. Universal Data Link (.udl) files are used to connect to the Microsoft SQL Server database.

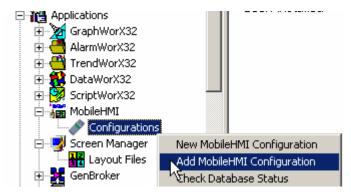
Note
Deleting a Microsoft SQL Server database configuration file from a project will delete it only from the project, not from SQL Server. (The .udl file will not be deleted as well.)

The following conditions apply to SQL Server configuration databases in ProjectWorX:

- ProjectWorX will not accept SQL Server configuration databases whose file names contain spaces because Microsoft SQL Server 2000 is not able to bulk export such databases.
- If a SQL configuration has dependent files (e.g. image files, sound files, etc.), these files will be packed along with the project automatically as referenced files.
- If ProjectWorX is used to perform certain operations on configurations while an instance of the configurator is open, a dialog box will be shown asking the user to close the configurator. ProjectWorX is blocked until the configurator is closed.
- Difference unpacking of projects will not work for SQL-based configurations. When unpacking SQL configuration files, all SQL configurations will not be overwritten even if the packed project contains newer files of the same name.

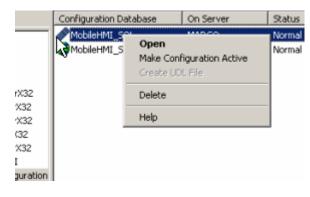
To add a SQL configuration database to a project:

1. Right-click the configuration tree and select **Add Configuration**, as shown in the figure below.



Adding a SQL Server Configuration Database

- 2. In the Add UDL Files dialog box, select a .udl file and click **Open** to add the configuration database to the current project.
- **3.** The configuration database appears in the configurations subtree in the right-hand pane of the ProjectWorX console. The details view lists the following properties for the configuration database:
- Configuration Database: Name of the database
- On Server: Name of the SQL Server in which the database was created
- Status: The status of the database (could be normal, offline, etc)
- Linked UDL File: The path to the UDL file used to identify the database
- 4. The new file appears in the right-hand pane of the ProjectWorX console, as shown in the figure below. If you right-click the file, the Create UDL File option is normally grayed out, as shown in the figure below. If the link to the .udl file is ever broken inside the ProjectWorX database, the Create UDL File option will become available and you will be able to create a new .udl file for the configuration.

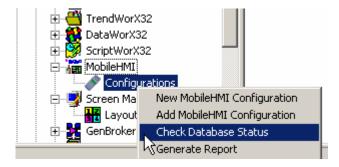


Configuration File Added

Checking the Database Status

The **Check Database Status** option is useful for checking the status of all the Microsoft SQL Server databases added to the project. ProjectWorX does not poll SQL Server regularly to get the database status, so a "Normal" status will always be displayed even if the database is offline. By using the check status option, the list of databases will be refreshed and any eventual problem will be displayed.

To get the status of a SQL Server database, right-click and select **Check Database Status** from the pop-up menu, as shown in the figure below.



Checking the Database Status

The status of the database is indicated as follows:

- Normal: The database is online and ready
- **Missing:** The database is no longer on the server.
- Offline: The database is still on the server but is currently offline.
- Recovering: The database is recovering.
- Loading: The database is currently loading and will be available soon.
- **Suspect:** The database may have become corrupt.
- Not Available: An unknown error has occurred and the database is not available.

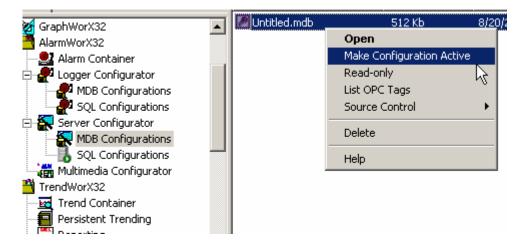
Activating Configuration Databases

Some application configurators (e.g. MobileHMI, Alarm Server, Alarm Logger, Alarm Multimedia, and Trend Logger) provide an option to specify an active configuration database.

Note
For active Microsoft SQL Server configuration databases, information is stored inside the ProjectWorX database and is not subject to continuous polling. If the active configuration is changed from outside ProjectWorX (e.g. with the MobileHMI Configurator) you will have to refresh the view by right-clicking and selecting Refresh from the pop-up menu. This updates ProjectWorX with the new database status.

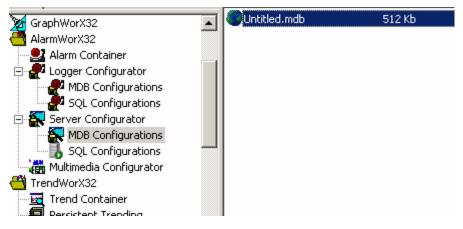
To activate a configuration database:

1. Right-click the configuration database and select **Make Configuration Active** from the pop-up menu, as shown in the figure below.



Specifying the Active Configuration Database

2. The icon next to the configuration file changes from the standard icon to a globe icon to indicate that it is active, as shown in the figure below.

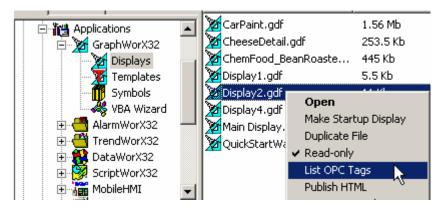


Configuration Database Activated

OPC Tag Verification

The ProjectWorX Console includes a feature that lists all of the OPC tags that belong to certain files:

1. For example, right-click a GraphWorX display file in the ProjectWorX Console and select List OPC Tags from the pop-up menu, as shown in the figure below.



Opening the Tag Verification Utility

- 2. This opens the Tag Verification Utility, which lists all OPC tags contained within the display file. You can verify the status of tags in one of three ways:
- Double-click a tag under OPC Tag Name.
- Select one or more tags under OPC Tag Name and click the Verify Selected button.
- Click the Verify All button to check the status of all tags in the display file.
- Click Export List to export the data to a text file.

Each of the tags selected for verification shows an indicator of good (green), bad (red), or uncertain (yellow) as a form of verification, as shown in the figure below.

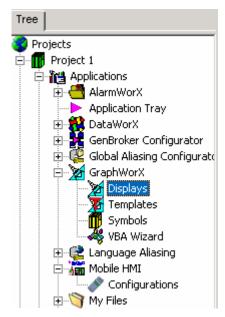
OPC Tag Name	Status 🔺
~~conv_run~~	🕒 (Local Variable)
~~conv_run~~	᠑ (Local Variable)
~~conv_run~~	᠑ (Local Variable)
~~roaster_temp~~	᠑ (Local Variable) 🔤
~~roaster_temp~~	᠑ (Local Variable)
~~roaster_temp~~	᠑ (Local Variable)
~~roaster_temp~~	᠑ (Local Variable)
1	᠑ (Good) 📃
1	᠑ (Good)
1	᠑ (Good) 📃 🚽
× ¹	••••••••••••••••••••••••••••••••••••••
Verify <u>S</u> elected Verify <u>All</u> Export List	<u>C</u> lose <u>H</u> elp

Verifying OPC Tags

GraphWorX Tree

The **GraphWorX** tree in the ProjectWorX console, shown in the figure below, manages files for the following GraphWorX components:

- Displays
- Templates
- Symbols
- VBA Wizards



GraphWorX Tree in ProjectWorX Console

GraphWorX Displays

The **Displays** subtree component of the GraphWorX tree in the ProjectWorX console, shown in the figure below, includes all the GraphWorX display files available for a project. From here you can right-click and create new GraphWorX display files or add existing display files to the project.

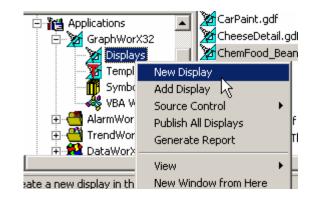
🖻 🛗 Applications 📃	🔀 CarPaint.gdf	1.56 Mb	7/6/2001 6:1
GraphWorX32	MarcheeseDetail.gdf	253.5 Kb	7/6/2001 6:1
Displays	ChemFood_BeanRoaste	445 Kb	7/6/2001 6:1
🧏 🗟 New Display	gdf	5.5 Kb	5/1/2002 1:3
📶 🕺 Add Display	gdf	11 Kb	5/13/2002 12
_ 🍓 Source Contro	I ▶ gdf	5.5 Kb	5/10/2002 5:
🕀 🚭 Alaı 🛛 Publish All Disp	lays lay.gdf	5.5 Kb	5/1/2002 3:1
🕀 💆 Tre 🛛 Generate Repo	ort tWalkThru.gdf	133.5 Kb	7/6/2001 6:1
Dat		1	
View	· •	1	
Create a new displa 👘 New Window f	rom Here		

GraphWorX Displays Subtree

Creating a New GraphWorX Display File

To create a new GraphWorX display file in the ProjectWorX console:

1. Right-click **Displays** in the **GraphWorX** tree and select **New Display** from the pop-up menu, as shown in the figure below.



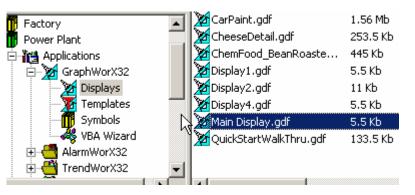
Creating a New GraphWorX Display File

2. Choose the type of display to create (e.g. with VBA or without VBA), and give the new file a name, as shown in the figure below. Click **OK**.

New Display	×
Type of the file to create :	ОК
GraphWorX Display with VBA	
GraphWorX Display without VBA	Cancel
C GraphWorX Display for WinCE	<u>H</u> elp
Filename : Display1	

Naming the New Display File

3. The new file appears in the Displays subtree in the right-hand pane of the ProjectWorX console, as shown in the figure below. ProjectWorX automatically launches the new file in GraphWorX.



New Display File Added to GraphWorX Display Tree

Specifying a GraphWorX Startup Display File

The GraphWorX Display tree provides an option to specify a startup display that automatically opens when GraphWorX is started from ProcViewTray. To specify a GraphWorX display file as the startup display in the ProjectWorX console:

1. Right-click the display file (e.g. "Main Display.gdf") and select **Make Startup Display** from the pop-up menu, as shown in the figure below.

Boiler Room Factory Power Plant Applications GraphWorX32 Displays Templates Symbols VBA Wizard AlarmWorX32	CheeseDetail.gdf ChemFood_BeanRoas Display1.gdf Display2.gdf Display4.gdf Main Display.gdf QuickStartWalkThru.g Display5.gdf FoamPress.gdf	253.5 Kb te 445 Kb 5.5 Kb 11 Kb 5.5 Kb 5.5 Kb Open Make Startup Displa Duplicate File ✔ Read-only	7/6/20 7/6/20 5/1/20 5/13/2 5/10/2 5/11/20 9 9 20 20 20 20 20
		•	•

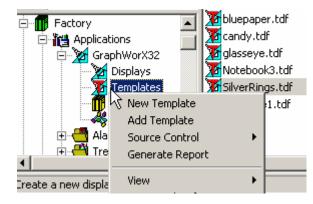
Specifying a GraphWorX Startup Display

2. The icon next to the display file changes from the standard GraphWorX icon to a globe icon, as shown in the figure below. The next time GraphWorX is launched from the ProcViewTray, the startup display will automatically open in GraphWorX.

ee	Name 🛆	Size	Modified	
🗄 📲 Boiler Room	Display1.gdf	5.5 Kb	5/1/2002 1:37:04 PM	
🗄 🛗 Factory	CarPaint.gdf	1.56 Mb	7/6/2001 6:11:00 AM	
🖻 🎆 Power Plant 🔤	🔀 CheeseDetail.gdf	253.5 Kb	7/6/2001 6:11:00 AM	
🚊 🎦 Applications	ChemFood_BeanRoaster	445 Kb	7/6/2001 6:11:00 AM	
🔁 🎽 GraphWorX32	2 QuickStartWalkThru.gdf	133.5 Kb	7/6/2001 6:11:00 AM	
Displays	Main Display.gdf	5.5 Kb	5/1/2002 3:11:48 PM	
Templates	Display2.gdf	5.5 Kb	5/1/2002 3:52:58 PM	
Symbols				
₩ 🥰 VBA Wizard				
Alaniiworx32 IrendWorx32				
Startup Display Indicated in GraphWorX Display Tree				

GraphWorX Templates

The **Templates** subtree component of the GraphWorX tree in the ProjectWorX console, shown in the figure below, includes all the GraphWorX template files available for a project. From here you can right-click and create new GraphWorX template files or add existing template files to the project.

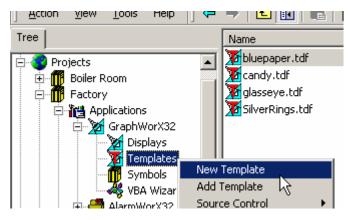


GraphWorX Templates Subtree

Creating a New GraphWorX Template File

To create a new GraphWorX template file in the ProjectWorX console:

1. Right-click **Templates** in the **GraphWorX** tree and select **New Template** from the pop-up menu, as shown in the figure below.



Creating a New GraphWorX Template File

2. Choose the type of template to create, and give the new file a name, as shown in the figure below. Click **OK**.

New Template	×
Type of the file to create :	ОК
GraphWorX Template GraphWorX Template for CE	Cancel
	<u>H</u> elp
Filename : Template1	

Naming the New File

3. The new file appears in the Templates subtree in the right-hand pane of the ProjectWorX console, as shown in the figure below. ProjectWorX automatically launches the new file in GraphWorX.

ction View Loois Help	-> 🕒 🖭 🔥 🖽 🖊	\ Ľ⊕ Ľ∛]	ê 🖴 🛃 沙
e	Name	Size	Modified
Projects	😿 bluepaper.tdf	860 Kb	5/25/2001 6:10:00 A
E Boiler Room	🔀 candy.tdf	605 Kb	5/25/2001 6:10:00 A
⊢	🔀 glasseye.tdf	830 Kb	5/25/2001 6:10:00 A
🖻 🛗 Applications	🔀 SilverRings.tdf	869.5 Kb	5/25/2001 6:10:00 A
🔁 🎽 GraphWorX32	Template1.tdf	5.5 Kb	5/1/2002 4:29:10 PN
- 🔀 Displays			
Templates			
Symbols			
VBA Wizard			
AlarmWorX32			

New File Added to GraphWorX Templates Subtree

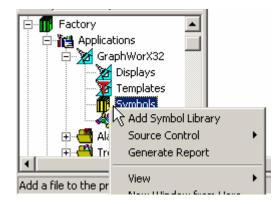
GraphWorX Symbols

The **Symbols** subtree component of the GraphWorX tree in the ProjectWorX console, shown in the figure below, includes all the GraphWorX Symbol Library files available for a project. From here you can right-click and add existing Symbol Library files to the project.

The way ProjectWorX handles Symbol Library files differs slightly from that of other file types. The Symbol Library files, which are usually used from within GraphWorX, are by default placed in the **Smar\ProcessView\Symbols** directory created when ProcessView is installed, as shown in the **Reference to** column in the figure below. However, it is possible to have Symbols Library files in other locations on the hard drive; ProjectWorX simply references the files from that location.

Note

When unpacking a project, ProjectWorX automatically distinguishes between Symbol Library files located in the **Smar\ProcessView\Symbols** folder and Symbol Library files located in other directories. Therefore ProjectWorX handles these files with the necessary care, placing them back in the proper location and prompting the user before overwriting existing files.



GraphWorX Symbols Subtree

GraphWorX VBA Wizard

The **VBA Wizard** subtree component of the GraphWorX tree in the ProjectWorX console, shown in the figure below, allows you to create a new display with a Microsoft Visual Basic for Applications (VBA) Wizard.

1. Click on the Create New VBA Wizard icon, as shown in the figure below.



GraphWorX VBA Wizard Subtree

2. Give the new file a name, as shown in the figure below, and then click OK.

New Display	×
Type of the file to create :	ОК
 GraphWorX Display with VBA GraphWorX Display without VBA 	Cancel
C GraphWorX Display for WinCE	Help
Filename : Display1	

Creating a New GraphWorX VBA Display

3. ProjectWorX automatically launches the new display file in GraphWorX, opening the Symbol Library as well. The new VBA file appears in the Displays subtree in the right-hand pane of the ProjectWorX console, as shown in the figure below.

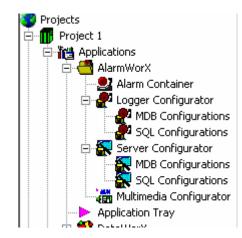
, onsole Root	GWX_Ex_WebExplorer2	110 Kb	7/6
Projects	CarPaint.gdf	1.56 Mb	7/E
Boiler Room	GWXApplicator.gdf	191.5 Kb	7/6
👬 Factory	2 Display1.gdf	5.5 Kb	5/1
🚊 🎁 Applications	2 Display2.gdf	11 Kb	5/2
🚊 🎽 GraphWorX32	GWX VBA Display.gdf	5.5 Kb	5/2
🏠 Displays			
🈿 Templates	1		
🔤 🎹 Symbols	1		
🦑 VBA Wizard	1		
🗄 🖰 AlarmWorX32			

New VBA Display File Added to GraphWorX Display Tree

AlarmWorX Tree

The **AlarmWorX** tree in the ProjectWorX console, shown in the figure below, manages files for the following AlarmWorX components:

- Alarm Container
- Logger Configurator
- Server Configurator
- Multimedia Configurator



AlarmWorX Tree in ProjectWorX Console

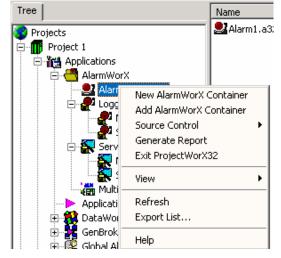
The Alarm container files are handled with the basic operations to create, add, duplicate, etc. The AlarmWorX Logger Configurator, Server Configurator, and Multimedia Configurator are handled a bit differently. The Logger and Server support both Microsoft Access (.mdb) databases and Microsoft SQL Server (or MSDE) based databases. AlarmWorX Multimedia only supports Microsoft SQL Server (or MSDE) databases.

Note

Configuration files that use Microsoft Access databases cannot be renamed or duplicated in ProjectWorX. If you want to rename or duplicate the configuration file, you should do it within the appropriate configurator application.

AlarmWorX Container

The **Alarm Container** subtree of the AlarmWorX tree in the ProjectWorX console, shown in the figure below, includes all the AlarmWorX container files available for a project. From here you can right-click and create new files or add existing files to the project.

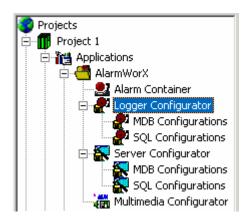


Alarm Container Subtree

Alarm Logger Configurator

The **Alarm Logger Configurator** subtree of the AlarmWorX tree in the ProjectWorX console, shown in the figure below, includes all the AlarmWorX Logger configuration database files available for a project. From here you can right-click and create new configuration databases or add existing configuration databases to the project. You can also activate the database.

The Alarm Logger Configurator supports both Microsoft Access (.mdb) databases and Microsoft SQL Server (or MSDE) based databases. For more information about SQL databases, please see "Adding a SQL Server Configuration Database to a Project."

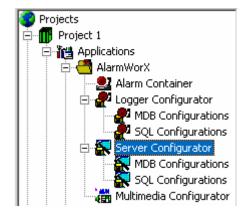


Alarm Logger Configurator Subtree

Alarm Server Configurator

The **Alarm Server Configurator** subtree of the AlarmWorX tree in the ProjectWorX console, shown in the figure below, includes all the AlarmWorX Server configuration database files available for a project. From here you can right-click and create new configuration databases or add existing configuration databases to the project. You can also activate the database.

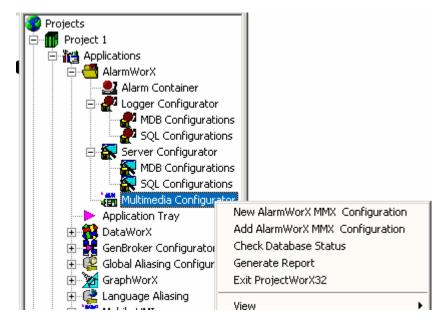
The Alarm Server Configurator supports both Microsoft Access (.mdb) databases and Microsoft SQL Server (or MSDE) based databases. For more information about SQL databases, please see "Adding a SQL Server Configuration Database to a Project."



Alarm Server Configurator Subtree

Multimedia Configurator

The **Multimedia Configurator** tree in the ProjectWorX console, shown in the figure below, manages AlarmWorX Multimedia configuration databases. The Multimedia Configurator uses Microsoft SQL Server databases, and it uses Universal Data Link (.udl) files to connect to the Microsoft SQL Server databases. These .udl files contain OLE database connection information that allows the Configurator to create and manage connections to OLE databases. You can also activate the database.



Multimedia Configurator Subtree

Note

For active Microsoft SQL Server configuration databases, information is stored inside the ProjectWorX database and is not subject to continuous polling. If the active configuration is changed from outside ProjectWorX (e.g. with the MobileHMI Configurator) you will have to refresh the view by right-clicking and selecting **Refresh** from the pop-up menu. This updates ProjectWorX with the new database status.

The following conditions apply to SQL Server configuration databases in ProjectWorX:

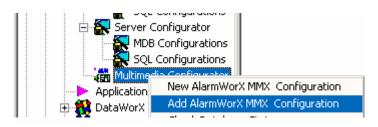
• ProjectWorX will not accept SQL Server configuration databases whose file names contain spaces because Microsoft SQL Server 2000 is not able to bulk export such databases.

- If a SQL configuration has dependent files (e.g. image files, sound files, etc.), these files will be packed along with the project automatically as referenced files.
- If ProjectWorX is used to perform certain operations on configurations while an instance of the configurator is open, a dialog box will be shown asking the user to close the configurator. ProjectWorX is blocked until the configurator is closed.
- Difference unpacking of projects will not work for SQL-based configurations. When unpacking SQL configuration files, all SQL configurations will not be overwritten even if the packed project contains newer files of the same name.

Adding a Multimedia Configuration Database

To add a Multimedia SQL configuration database to a project:

1. Right-click the configuration tree and select Add Configuration, as shown in the figure below.



Adding a Multimedia SQL Server Configuration Database

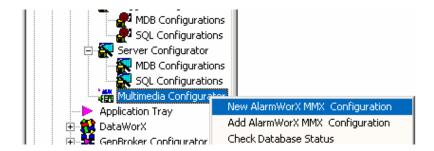
- 2. In the Add UDL Files dialog box, select a .udl file and click **Open** to add the configuration database to the current project.
- **3.** The configuration database appears in the configurations subtree in the right-hand pane of the ProjectWorX console. The details view lists the following properties for the configuration database:
- Configuration Database: Name of the database
- On Server: Name of the SQL Server in which the database was created
- Status: The status of the database (could be normal, offline, etc)
- Linked UDL File: The path to the UDL file used to identify the database
- 4. The new file appears in the right-hand pane of the ProjectWorX console. If you right-click the file, the Create UDL File option is normally grayed out, as shown in the figure below. If the link to the .udl file is ever broken inside the ProjectWorX database, the Create UDL File option will become available and you will be able to create a new .udl file for the configuration.

Note
Deleting a Microsoft SQL Server database configuration file from a project will delete it only from the project, not from SQL Server. (The .udl file will not be deleted as well.)

Creating a New Multimedia SQL Configuration Database

To create a new Multimedia configuration database in the ProjectWorX console:

1. Right-click the **Configurations** subtree in the **Multimedia Configurator** tree and select **New Configuration** from the pop-up menu, as shown in the figure below.



Creating a New Multimedia Configuration Database

2. ProjectWorX launches the Multimedia Configuration Database Wizard, which will help you create a new configuration database.

Note
For complete information about creating and configuring Multimedia databases, please refer to the AlarmWorX Multimedia Configurator Help documentation.

Checking the Database Status

The **Check Database Status** option is useful for checking the status of all the Microsoft SQL Server databases added to the project. ProjectWorX does not poll SQL Server regularly to get the database status, so a "Normal" status will always be displayed even if the database is offline. By using the check status option, the list of databases will be refreshed and any eventual problem will be displayed.

To get the status of a SQL Server database, right-click and select **Check Database Status** from the pop-up menu, as shown in the figure below.



Checking the Database Status

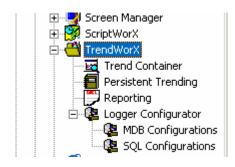
The status of the database is indicated as follows:

- Normal: The database is online and ready
- Missing: The database is no longer on the server.
- Offline: The database is still on the server but is currently offline.
- Recovering: The database is recovering.
- Loading: The database is currently loading and will be available soon.
- Suspect: The database may have become corrupt.
- Not Available: An unknown error has occurred and the database is not available.

TrendWorX Tree

The **TrendWorX** tree in the ProjectWorX console, shown in the figure below, manages files for the following TrendWorX components:

- Trend Container
- Persistent Trending
- Reporting
- Logger Configurator

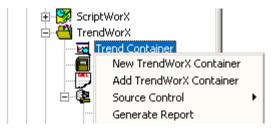


TrendWorX Tree in ProjectWorX Console

The Trend container, Persistent Trending, and Reporting files are handled with the basic operations to create, add, duplicate, etc. The Logger supports both Microsoft Access (.mdb) databases and Microsoft SQL Server (or MSDE) based databases.

TrendWorX Container

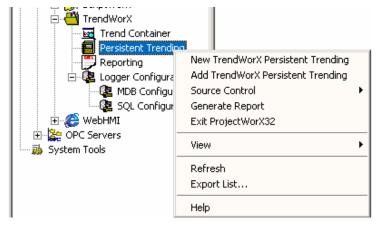
The **Trend Container** subtree of the TrendWorX tree in the ProjectWorX console, shown in the figure below, includes all the TrendWorX container files available for a project. From here you can right-click and create new files or add existing files to the project.



Trend Container Subtree

TrendWorX Persistent Trending

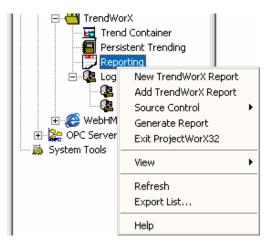
The **Persistent Trending** subtree of the TrendWorX tree in the ProjectWorX console, shown in the figure below, includes all the TrendWorX Persistent Trending files available for a project. From here you can right-click and create new files or add existing files to the project.



TrendWorX Persistent Trending Subtree

TrendWorX Reporting

The **Reporting** subtree of the TrendWorX tree in the ProjectWorX console, shown in the figure below, includes all the TrendWorX Reporting files available for a project. From here you can right-click and create new files or add existing configuration files to the project.

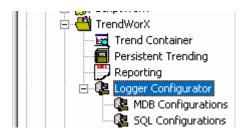


TrendWorX Reporting Subtree

TrendWorX Logger Configurator

The **Logger Configurator** subtree of the TrendWorX tree in the ProjectWorX console, shown in the figure below, includes all the TrendWorX Logger configuration database files available for a project. From here you can right-click and create new configuration databases or add existing configuration databases to the project. You can also activate the database.

The TrendWorX Logger Configurator supports both Microsoft Access (.mdb) databases and Microsoft SQL Server (or MSDE) based databases.



TrendWorX Logger Configurator Subtree

Activating TrendWorX Logger Configuration Databases

TrendWorX Logger configuration databases are handled the same as previously explained for AlarmWorX configuration databases with the exception that setting a TrendWorX database active requires you to select the internal configuration if more than one database is provided.

To activate a TrendWorX Logger configuration database:

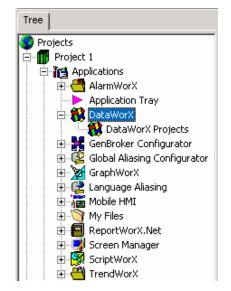
- 1. Right-click the file and select Make Configuration Active from the pop-up menu.
- 2. Select the configuration database to activate, as shown in the figure below. Click OK.
- **3.** The icon next to the configuration file changes from the standard icon to a globe icon to indicate that it is active, as shown in the figure below.

Choose the configuration to Make Active	×
Choose the TrendWorX32 configuration to activate :	
Twx32Demo	
ОК	

Selecting a TrendWorX Database to Activate

DataWorX Tree

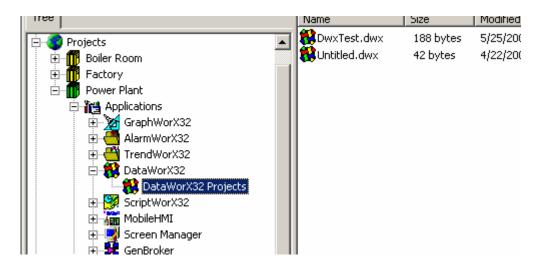
The **DataWorX** tree in the ProjectWorX console, shown in the figure below, includes all the DataWorX files available for a project.



DataWorX Tree in ProjectWorX Console

DataWorX Projects

In the **DataWorX Projects** subtree of the DataWorX tree in the ProjectWorX console, you can rightclick and create new files or add existing files to the project. You can also specify a startup project.



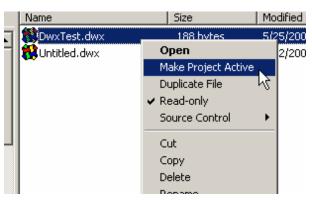
DataWorX Projects Subtree

Specifying a DataWorX Startup Project

The **DataWorX Projects** subtree of the DataWorX tree provides an option to specify a startup project that automatically opens when DataWorX is launched from ProcViewTray.

To specify a DataWorX project file as the startup project in the ProjectWorX console:

1. Right-click the project file and select **Make Project Active** from the pop-up menu, as shown in the figure below.



Specifying a DataWorX Startup Project

2. The icon next to the project file changes from the standard DataWorX icon to a globe icon, as shown in the figure below. The next time DataWorX is launched from the ProcViewTray, the startup project will automatically open in DataWorX.

Tree	Name 🛆	Size	Modified
Projects	🗱 Untitled.dwx	42 bytes	12/16/2002 7:00:00 AM
🚊 📶 Project 1			
🚊 🛗 Applications			
🗄 🚭 AlarmWorX			
Application Tray			
🖻 👯 DataWorX			
🔤 🎇 DataWorX Projects			

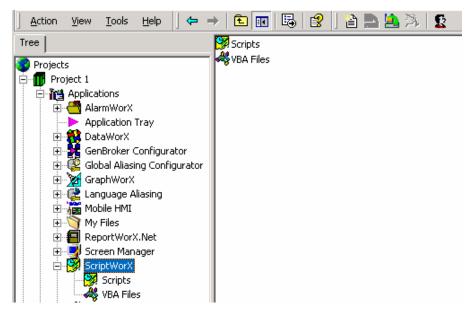
Startup Project Indicated in DataWorX Projects Tree

ScriptWorX Tree

The **ScriptWorX** tree in the ProjectWorX console, shown in the figure below, manages files for the following ScriptWorX components:

- Scripts
- VBA Files

Although you can view all the files that pertain to a script (i.e. the .swx files as well as the .vba files with the same name that automatically created when making a new script), the ScriptWorX (.swx) files are the only files that you can really access through the ProjectWorX console. Each .swx file has a corresponding .vba file. A .vba file without a .swx file would be of no use in this environment, so in ProjectWorX these two file types are always connected to each other. This prevents confusion and avoids deleting or creating .vba files not connected to any script (.swx) file.

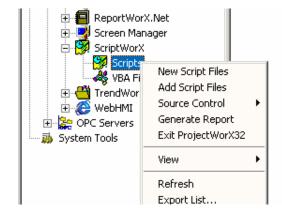


ScriptWorX Tree in ProjectWorX Console

ScriptWorX Scripts

The **Scripts Container** subtree of the ScriptWorX tree in the ProjectWorX console, shown in the figure below, includes all the ScriptWorX script (*.swx) files available for a project. From here you can right-click and create new scripts or add existing scripts to the project.

Note
Each .swx file has a corresponding .vba file. The .vba files that correspond to .swx files are stored
in the VBA Files subtree. When you create, rename, delete, or activate a .swx script file, the .vba
file that corresponds to the .swx file will also be created, renamed, deleted, or activated.

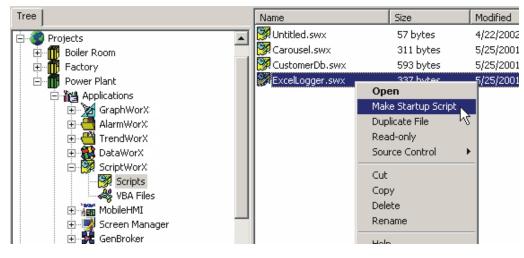


Scripts Subtree

Specifying a ScriptWorX Startup Script

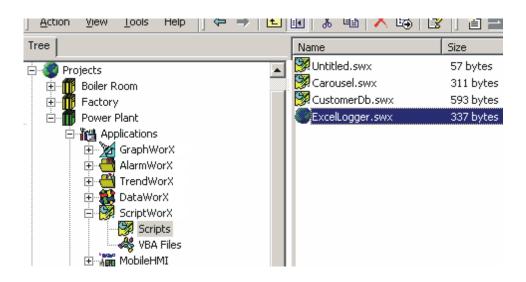
The **Scripts** subtree of the ScriptWorX tree provides an option to specify a startup script that automatically opens when ScriptWorX is started from ProcViewTray. To specify a ScriptWorX file as the startup script in the ProjectWorX console:

1. Right-click the script file and select **Make Startup Script** from the pop-up menu, as shown in the figure below.



Specifying a ScriptWorX Startup Script

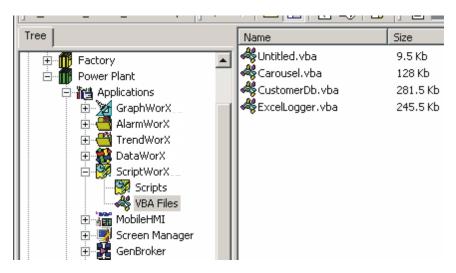
2. The icon next to the project file changes from the standard ScriptWorX icon to a globe icon, as shown in the figure below. The next time ScriptWorX is launched from the ProcViewTray, the startup script will automatically open in ScriptWorX.



Startup Project Indicated in Scripts Tree

ScriptWorX VBA Files

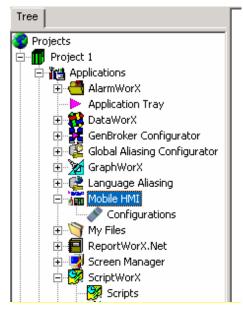
The **VBA Files** subtree of the ScriptWorX tree in the ProjectWorX console, shown in the figure below, contains all VBA scripts that correspond to the ScriptWorX (.swx) script files in the **Scripts** subtree. Although you cannot directly modify the .vba files, any time a change is made to a .swx script file, the change is reflected in the .vba file that corresponds to that .swx file.



VBA Files Subtree

MobileHMI Tree

The **MobileHMI** tree in the ProjectWorX console, shown in the figure below, manages MobileHMI configuration databases. The MobileHMI Configurator uses Microsoft SQL Server databases, and it uses Universal Data Link (.udl) files to connect to the Microsoft SQL Server database. These .udl files contain OLE database connection information that allows the Configurator to create and manage connections to OLE databases.



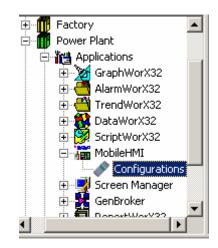
MobileHMI Tree in ProjectWorX Console

MobileHMI Configurations

The **Configurations** subtree of the MobileHMI tree in the ProjectWorX console, shown in the figure below, includes all the MobileHMI configuration databases available for a project. From here you can right-click and create new configurations or add existing configuration databases to the project. You can also activate the database

Note

For active Microsoft SQL Server configuration databases, information is stored inside the ProjectWorX database and is not subject to continuous polling. If the active configuration is changed from outside ProjectWorX (e.g. with the MobileHMI Configurator) you will have to refresh the view by right-clicking and selecting **Refresh** from the pop-up menu. This updates ProjectWorX with the new database status.



MobileHMI Configurations Subtree

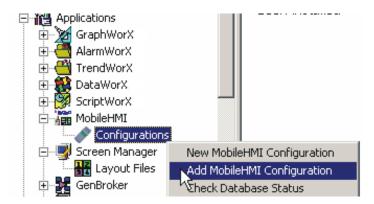
The following conditions apply to SQL Server configuration databases in ProjectWorX:

- ProjectWorX will not accept SQL Server configuration databases whose file names contain spaces because Microsoft SQL Server 2000 is not able to bulk export such databases.
- If a SQL configuration has dependent files (e.g. image files, sound files, etc.), these files will be packed along with the project automatically as referenced files.
- If ProjectWorX is used to perform certain operations on configurations while an instance of the configurator is open, a dialog box will be shown asking the user to close the configurator. ProjectWorX is blocked until the configurator is closed.
- Difference unpacking of projects will not work for SQL-based configurations. When unpacking SQL configuration files, all SQL configurations will not be overwritten even if the packed project contains newer files of the same name.

Adding a MobileHMI Configuration Database

To add a MobileHMI SQL configuration database to a project:

1. Right-click the configuration tree and select Add Configuration, as shown in the figure below.



Adding a SQL Server Configuration Database

- 2. In the Add UDL Files dialog box, select a .udl file and click Open to add the configuration database to the current project.
- **3.** The configuration database appears in the configurations subtree in the right-hand pane of the ProjectWorX console. The details view lists the following properties for the configuration database:
- Configuration Database: Name of the database
- On Server: Name of the SQL Server in which the database was created
- Status: The status of the database (could be normal, offline, etc)
- Linked UDL File: The path to the UDL file used to identify the database
- 4. The new file appears in the right-hand pane of the ProjectWorX console, as shown in the figure below. If you right-click the file, the Create UDL File option is normally grayed out, as shown in the figure below. If the link to the .udl file is ever broken inside the ProjectWorX database, the Create UDL File option will become available and you will be able to create a new .udl file for the configuration.

	Configuration D	atabase	On Server	Status
	MobileHMI_S MobileHMI_S	Open	figuration Active	Normal Normal
rX32		Delete		
*X32 *X32		Help		
(32				
'X32 I				
guration				

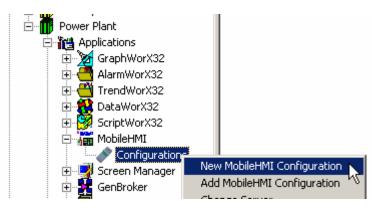
Configuration File Added

Note
Deleting a Microsoft SQL Server database configuration file from a project will delete it only from the project, not from SQL Server. (The .udl file will not be deleted as well.)

Creating a New MobileHMI SQL Configuration Database

To create a new MobileHMI configuration database in the ProjectWorX console:

1. Right-click the **Configurations** subtree in the **MobileHMI** tree and select **New MobileHMI Configuration** from the pop-up menu, as shown in the figure below.



Creating a New MobileHMI Configuration Database

2. ProjectWorX launches the **MobileHMI Configuration Database Wizard**, which will help you create a new MobileHMI configuration database.

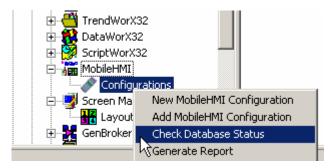
Note

For complete information about creating and configuring MobileHMI databases, please refer to the MobileHMI Configurator Help documentation.

Checking the Database Status

The **Check Database Status** option is useful for checking the status of all the Microsoft SQL Server databases added to the project. ProjectWorX does not poll SQL Server regularly to get the database status, so a "Normal" status will always be displayed even if the database is offline. By using the check status option, the list of databases will be refreshed and any eventual problem will be displayed.

To get the status of a SQL Server database, right-click and select **Check Database Status** from the pop-up menu, as shown in the figure below.



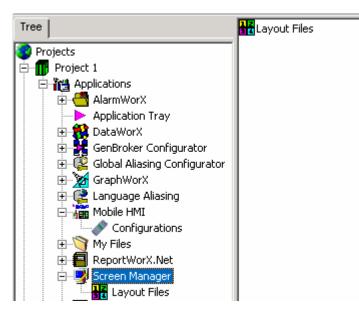
Checking the Database Status

The status of the database is indicated as follows:

- Normal: The database is online and ready
- Missing: The database is no longer on the server.
- Offline: The database is still on the server but is currently offline.
- Recovering: The database is recovering.
- Loading: The database is currently loading and will be available soon.
- Suspect: The database may have become corrupt.
- Not Available: An unknown error has occurred and the database is not available.

Screen Manager Tree

The **Screen Manager** tree in the ProjectWorX console, shown in the figure below, manages all the Screen Manager layout files for ProcessView projects. The Screen Manager tree allows you to specify an automatic startup layout for the machine running the project. ProjectWorX includes eight default layout (.pwf) files as templates from which to create new Screen Manager layouts to include in projects.



Screen Manager Tree in ProjectWorX Console

Screen Manager Layout Files

The **Layout Files** subtree of the Screen Manager tree in the ProjectWorX console, shown in the figure below, includes all the Screen Manager layout (.pwf) files available for a project. From here you can right-click and create new files or add existing layout files to the project. You can also specify a startup layout.

Tree		Name	Size	Modified
🗄 🕀 📶 Boiler Room		Cayout1.pwf	247 bytes	4/22/2002 4:33:04 PM
🗄 🛗 Factory	_	👬 Layout2.pwf	247 bytes	4/22/2002 4:33:04 PM
🖻 🋗 Power Plant		PowerPlant.pwf	264 bytes	4/30/2002 1:58:22 PM
🚊 🎦 Applications				
🕀 🕅 🗹 🔂 🔂 🔂 🗄				
🕀 🛅 AlarmWorX32				
🕀 💾 TrendWorX32				
🕀 🙀 DataWorX32				
🖻 👺 ScriptWorX32				
- 💯 Scripts				
🛛 🦓 VBA Files				
🖃 👬 MobileHMI				
Configurations				
🖃 📑 Screen Manager	_			
Layout Files			ı	
🖻 🚼 GenBroker 📿		Layout File		
🔄 🔄 Configuratio		layout File		
	Sourc	te Control 💦 🕨 🕨	F	FULL ACCESS

Screen Manager Layout Files Subtree

Creating a New Screen Manager Layout File

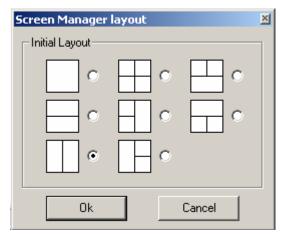
To create a new Screen Manager layout file in the ProjectWorX console:

1. Right-click Layout Files in the Screen Manager tree and select New Layout File from the popup menu, as shown in the figure below.

Tree	Name		Size	Modified
E Factory		out2.pwf	247 bytes	4/22/2002 4:33:04 PM
Power Plant	Pow	erPlant.pwf	264 bytes	4/30/2002 1:58:22 PM
🚊 🎁 Applications				
😥 🎢 GraphWorX32				
🕀 🖰 AlarmWorX32				
🕀 🥶 TrendWorX32				
🕀 🅵 DataWorX32				
🕀 🥳 ScriptWorX32				
🕀 👬 MobileHMI				
🖻 – 🛃 <u>Scr</u> een Manager				
Layout Files	Name Lawrence Fil			
🖻 📲 GenBroker 📕	New Layout Fil			
🔄 🚮 Configurati	Add Layout File	· v		
🖻 🗐 ReportWorX32	Source Control	•		
Configurati	View	•		

Creating a New Screen Manager Layout File

2. Choose one type of layout to create from the eight layout templates that are provided, as shown in the figure below. Click **OK**.



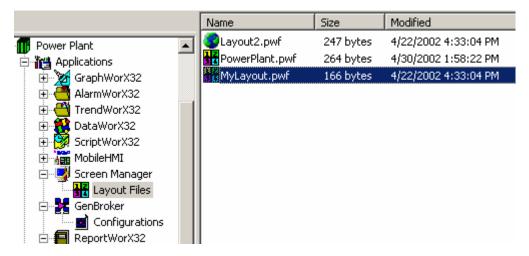
Selecting a Layout

3. Give the new layout file a name, as shown in the figure below. Click OK.

Type the name for the new file	OK
	Cancel
MyLayoutpwf	

Naming the Layout File

4. The new layout file appears in the **Layout Files** subtree in the right-hand pane of the ProjectWorX console, as shown in the figure below.



New Layout File Added to Screen Manager Tree

5. ProjectWorX automatically launches the new layout file in the Screen Manager, as shown in the figure below. As you can see, all layout files for the project appear in the Screen Manager Command Bar. Now you can modify the layouts as needed in the Screen Manager.

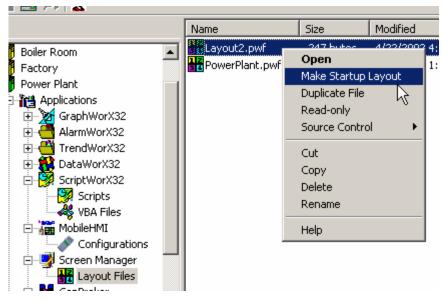
					Note	e						
	For information documentation.	about	configuring	layout	files,	please	refer	to	the	Screen	Manager	Help
Screen N Screet Manag	1anager - select a N er	a layou	t or templat			Лио	TEPAD)				

Screen Manager Launched With Project Layouts

Specifying a Screen Manager Startup Layout

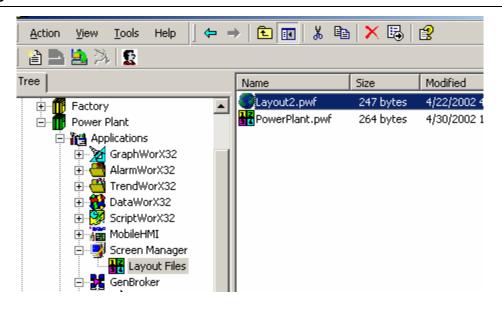
The **Layout Files** subtree of the Screen Manager tree provides an option to specify a startup layout that automatically opens when Screen Manager is launched from ProcViewTray. To specify a Screen Manager project file as the startup layout in the ProjectWorX console:

1. Right-click the layout file and select **Make Startup Layout** from the pop-up menu, as shown in the figure below.



Specifying a Screen Manager Startup Layout

2. The icon next to the layout file changes from the standard Screen Manager layout icon to a globe icon, as shown in the figure below. The next time Screen Manager is launched from ProcViewTray, the startup layout will automatically open in Screen Manager.

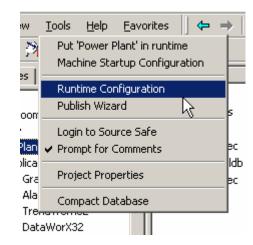


Startup Layout Indicated in Layout Files Tree

Launching the Screen Manager

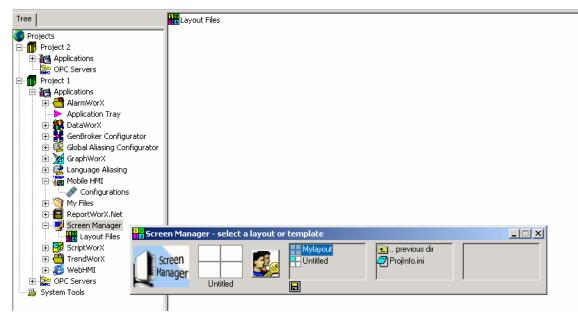
Once you have added Screen Manager layout files to a project, you can launch the Screen Manager from the ProjectWorX console.

1. Select the project tree and choose **Runtime Configuration** from the **Tools** menu, as shown in the figure below.



Launching the Screen Manager From the Tools Menu

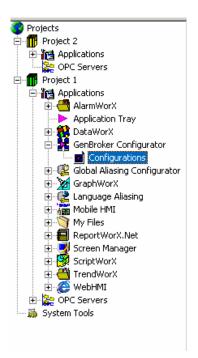
2. ProjectWorX automatically launches the new layout file in the Screen Manager, as shown in the figure below. As you can see, all layout files for the selected project appear in the Screen Manager Command Bar. Now you can modify the layouts as needed in the Screen Manager.



Screen Manager Launched

GenBroker Tree

The **GenBroker** tree in the ProjectWorX console, shown in the figure below, manages GenBroker configuration files for each project. GenBroker allows you to specify OPC communication types for networks.

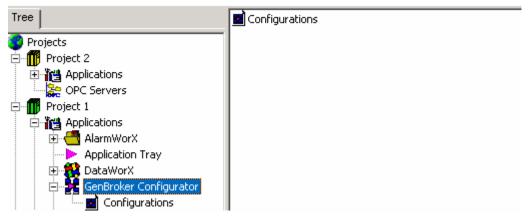


GenBroker Tree in ProjectWorX Console

GenBroker Configurations

The **GenBroker Configurations** subtree of the GenBroker tree in the ProjectWorX console, shown in the figure below, includes all the GenBroker configuration files available for a project. From here you can right-click and create new files or add existing configuration files to the project. You can also activate a GenBroker configuration.

A default **OLExpress Communication** item is listed in the GenBroker configurations. When no GenBroker configuration (.gbc) files are present, the default method of communication is OLExpress or COM\DCOM.

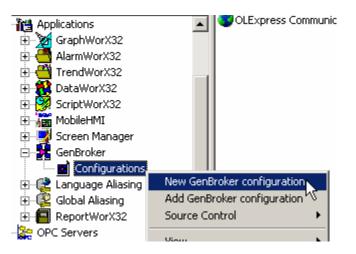


GenBroker Configurations Subtree

Creating a New GenBroker Configuration

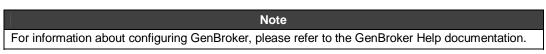
To create a new GenBroker configuration in the ProjectWorX console:

1. Right-click **Configurations** in the **GenBroker** tree and select **New GenBroker Configuration** from the pop-up menu, as shown in the figure below.



Creating a New GenBroker Configuration

2. This opens the GenBroker Configurator, as shown in the figure below. Configure GenBroker and then click the Save & Close button.



GenBroker Configurator	
<u>F</u> ile <u>⊂</u> hannel <u>N</u> ode <u>H</u> elp	
Configuration File:	
C:\Program Files\Smar\ProcessView\Projects\Project 1\Applications	\GenBroker\Configurations\Ne
GenBroker Channels	
OPC Direct (default) OPC over TCP/IP Direct Channels OPC over SOAP/XML Direct Channels OPC over DCOM Direct Channels OPC over DCOM Direct Channels	Remote Servers
	Save & Close
	Cancel

Creating a New GenBroker Configuration

3. Give the new file a name, as shown in the figure below. Click Save.

Save As				? ×
Save in:	Power Plant		- + 🗈 💣	
Desktop				
My Documents				
My Computer	File name:	New GenBroker Configuration	•	Save
My Network P	Save as type:	GenBroker Configurations (*.gbo	:) 🔽	Cancel
				//

Naming the GenBroker Configuration File

4. The new configuration file appears in the **GenBroker Configurations** subtree in the right-hand pane of the ProjectWorX console, as shown in the figure below.

皆 ProjectWorX				
∫ <u>A</u> ction <u>V</u> iew <u>T</u> ools <u>H</u> elp) 🗈 🖪 🖷 🕼 😫 🛛	🖹 🚬 🔔 🎘	£	
Tree	Name	Size	Modified	Reference to
Projects Project 2 Project 2 Project 2 Project 1 Project	OLExpress Communication New GenBroker Configuration.gbx	1.41 Kb	4/20/2004 3:04:28 PM	

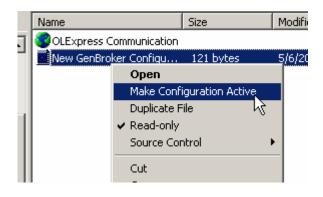
New GenBroker Configuration File Added to GenBroker Tree

Activating a GenBroker Configuration

The **GenBroker Configurations** subtree of the GenBroker tree provides an option to activate a GenBroker configuration file that automatically opens when GenBroker is launched from ProcViewTray.

To specify a GenBroker configuration file as the active configuration in the ProjectWorX console:

1. Right-click the configuration file and select **Make Configuration Active** from the pop-up menu, as shown in the figure below.



Activating a GenBroker Configuration File

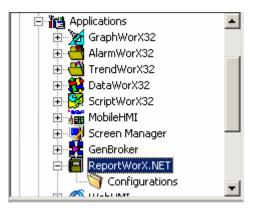
2. The icon next to the project file changes from the standard GenBroker icon to a globe icon, as shown in the figure below. The next time GenBroker is launched from the ProcViewTray, the active configuration automatically opens in the GenBroker Configurator.

🔓 ProjectWorX				
Action Yiew Tools Help) 🗈 📧 💼 😰 🗟 😫 🛛	省 🚬 🚵 🎘	£	
Tree	Name	Size	Modified	Reference to
Projects	OLExpress Communication			
Project 2	New GenBroker Configuration.gbx	1.41 Kb	4/20/2004 3:04:28 PM	
🕀 🛗 Applications				
CPC Servers				
E Project 1				
Applications AlarmWorX				
Application Tray				
🕀 🙀 DataWorX				
GenBroker Configurator				
Configurations				
 Image: Global Aliasing Configurat Image: Global Aliasing Configurat Image: Global Aliasing Configurat 				
🕀 🛺 Mobile HMI				
📄 🕀 🕎 My Files				
🗈 🗐 ReportWorX.Net 📃				
	[1]			<u>▶</u>
2 GenBroker Configurator configuration(s) in t	his project			FULL ACCESS

Activated GenBroker Configuration File Indicated in GenBroker Tree

ReportWorX.NET Tree

The **ReportWorX.NET** tree in the ProjectWorX console, shown in the figure below, manages ReportWorX configuration databases. ReportWorX uses Microsoft SQL Server databases, and it uses Universal Data Link (.udl) files to connect to the Microsoft SQL Server database. These .udl files contain OLE database connection information that allows the Configurator to create and manage connections to OLE databases.



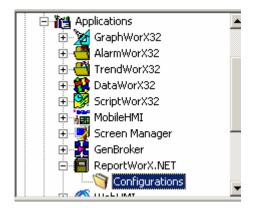
ReportWorX.NET Tree in ProjectWorX Console

ReportWorX.NET Configurations

The **Configurations** subtree of the MobileHMI tree in the ProjectWorX console, shown in the figure below, includes all the MobileHMI configuration databases available for a project. From here you can right-click and create new configurations or add existing configuration databases to the project. You can also activate the database.

Note

ProjectWorX database and is not subject to continuous polling. If the active configuration is changed from outside ProjectWorX (e.g. with the MobileHMI Configurator) you will have to refresh the view by right-clicking and selecting **Refresh** from the pop-up menu. This updates ProjectWorX with the new database status.



ReportWorX.NET Configurations Subtree

The following conditions apply to SQL Server configuration databases in ProjectWorX:

- ProjectWorX will not accept SQL Server configuration databases whose file names contain spaces because Microsoft SQL Server 2000 is not able to bulk export such databases.
- If a SQL configuration has dependent files (e.g. image files, sound files, etc.), these files will be packed along with the project automatically as referenced files.
- If ProjectWorX is used to perform certain operations on configurations while an instance of the configurator is open, a dialog box will be shown asking the user to close the configurator. ProjectWorX is blocked until the configurator is closed.
- Difference unpacking of projects will not work for SQL-based configurations. When unpacking SQL configuration files, all SQL configurations will not be overwritten even if the packed project contains newer files of the same name.

Adding a ReportWorX Configuration Database

To add a ReportWorX SQL configuration database to a project:

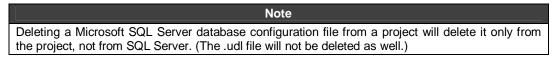
1. Right-click the configuration tree and select Add Configuration, as shown in the figure below.



Adding a SQL Server Configuration Database

- 2. In the Add UDL Files dialog box, select a .udl file and click Open to add the configuration database to the current project.
- **3.** The configuration database appears in the configurations subtree in the right-hand pane of the ProjectWorX console. The details view lists the following properties for the configuration database:

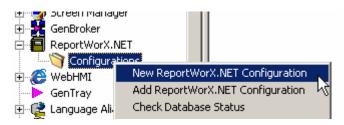
- Configuration Database: Name of the database
- On Server: Name of the SQL Server in which the database was created
- Status: The status of the database (could be normal, offline, etc)
- Linked UDL File: The path to the UDL file used to identify the database
- 4. The new file appears in the right-hand pane of the ProjectWorX console, as shown in the figure below. If you right-click the file, the Create UDL File option is normally grayed out. If the link to the .udl file is ever broken inside the ProjectWorX database, the Create UDL File option will become available and you will be able to create a new .udl file for the configuration.



Creating a New ReportWorX SQL Configuration Database

To create a new ReportWorX configuration database in the ProjectWorX console:

1. Right-click the **Configurations** subtree and select **New Configuration** from the pop-up menu, as shown in the figure below.



Creating a New ReportWorX Configuration Database

2. ProjectWorX launches the **ReportWorX Configurator**, which will help you create a new configuration database.

Checking the Database Status

The **Check Database Status** option is useful for checking the status of all the Microsoft SQL Server databases added to the project. ProjectWorX does not poll SQL Server regularly to get the database status, so a "Normal" status will always be displayed even if the database is offline. By using the check status option, the list of databases will be refreshed and any eventual problem will be displayed.

To get the status of a SQL Server database, right-click and select **Check Database Status** from the pop-up menu, as shown in the figure below.



Checking the Database Status

The status of the database is indicated as follows:

- Normal: The database is online and ready
- Missing: The database is no longer on the server.

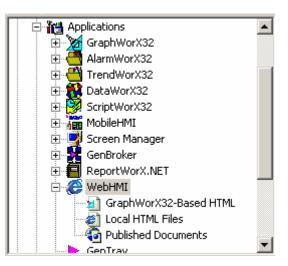
- Offline: The database is still on the server but is currently offline.
- **Recovering:** The database is recovering.
- Loading: The database is currently loading and will be available soon.
- Suspect: The database may have become corrupt.
- Not Available: An unknown error has occurred and the database is not available.

WebHMI Tree

The **WebHMI** tree in the ProjectWorX console, shown in the figure below, manages Web publishing for each project. From here you can right-click and publish files to a Web server. The WebHMI tree includes three major categories of files for WebHMI users:

- GraphWorX-Based HTML
- Local HTML Files
- Published Documents

For more information about these categories, please see Chapter 6.



WebHMI Tree in ProjectWorX Console

ProcessView Tray Tree

The **ProcessView Tray** tree of the ProjectWorX console, shown in the figure below, is a snap-in that includes all the capabilities of the ProcessView Tray application. When the ProcessView Tray tree is selected, a list of the ProcessView applications on the machine is provided, as shown in the figure below. From this list you can check to see whether a server or an application is running and browse their settings. For more information about ProcessView Tray, please see **Chapter 6.**

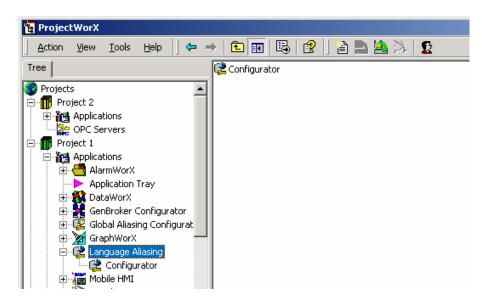
Note	
The ProcessView Tray tree shows data for the active project only.	

		<u>⊅ £</u>	[
	Application A	Applicatio	Status	Start with Project	Start Position	Start Delay
rojects	AlarmWorX AlarmWorX Logger	AWXLog32	Not Running	No	0	0
Project 2	AlarmWorX AlarmWorX Multimedia	AWXmmx32	Not Running	No	0	0
Applications	AlarmWorX AlarmWorX Server	AWXSvr32	Not Running	No	0	0
OPC Servers	AlarmWorX Container	AWXcntnr32	Not Running	No	0	0
Project 1	AlarmWorX Multimedia Call In Server	MMXCallin	Not Running	No	0	0
Applications	🔜 🙀 DataWorX	DWX32	Not Running	No	0	0
🗄 🚰 AlarmWorX	GenAgent	GenAgent	Not Running	No	0	0
Application Tray	GenBroker	GenBroker	Not Running	No	0	0
🗄 🙀 DataWorX	GraphWorX	GWX32	Not Running	No	0	0
🖃 🛃 GenBroker Configurator	Screen Manager	ScrMgrBar	Running	No	0	0
Configurations	ScriptWorX	SWX32	Not Running	No	0	0
🗄 🦉 Global Aliasing Configurat	Secure Desktop	SecDesk	Not Running	No	0	0
🕀 🎽 GraphWorX	TrendWorX Container	TWXcntnr32	Not Running	No	0	0
🕀 健 Language Aliasing 🕀 🚛 Mobile HMI	TrendWorX Persistent Trending Configurator	TWXpst32	Not Running	No	0	0
⊞ nobile HMI ⊞ 🌍 My Files	TrendWorX TrendWorX Report ActiveX	TWXrpt32	Not Running	No	0	0
E 🗧 ReportWorX.Net	TrendWorX TrendWorX SQL Server	TWXsql32	Not Running	No	0	0

ProcViewTray Tree in ProjectWorX Console

Language Aliasing Tree

The Language Aliasing tree in the ProjectWorX console, shown in the figure below, manages language configuration databases for each project. From here you can right-click and create new configurations or add existing configuration databases to the project. You can also activate the database.



Language Aliasing Tree in ProjectWorX Console

Language Configurations

The **Configurator** subtree of the Language Aliasing tree in the ProjectWorX console, shown in the figure below, includes all the Language Configurator databases available for a project. From here you can right-click and create new databases or add existing configuration databases to the project.



Language Aliasing Configuration Subtree

Creating a New Language Configuration

To create a new language configuration in the ProjectWorX console:

1. Right-click **Configurator** in the **Language Aliasing** tree and select **New Configuration** from the pop-up menu, as shown in the figure below.



Creating a New Language Configuration

2. Give the new file a name, as shown in the figure below. Click OK.

Type the name for the new file	ОК
	Cancel
new language database.mdb	

Naming the New Configuration Database

3. The new file appears in the Language Configurator subtree in the right-hand pane of the ProjectWorX console, as shown in the figure below.

Name	Size	Modified
🞼 LangSup.mdb	828 Kb	11/9/2000 12:46:52 PM
📽 new lang database.mdb	828 Kb	5/28/2002 1:10:30 PM

New Language Database Added to Language Configurator Tree

Global Aliasing Tree

The **Global Aliasing** tree in the ProjectWorX console, shown in the figure below, includes all the Global Alias Configurator databases available for a project. From here you can right-click and create new databases or add existing configuration databases to the project. You can also activate the database.



Global Aliasing Tree

Global Aliasing Configurations

The **Configurator** subtree of the Global Aliasing tree in the ProjectWorX console, shown in the figure below, includes all the Global Aliasing Configurator databases available for a project. From here you can right-click and create new databases or add existing configuration databases to the project.



Global Aliasing Configurator Subtree

Creating a New Global Aliasing Configuration

To create a new global aliasing configuration in the ProjectWorX console:

1. Right-click **Configurations** in the **Global Aliasing** tree and select **New Configuration** from the pop-up menu, as shown in the figure below.



Creating a New Global Aliasing Configuration

2. Give the new file a name, as shown in the figure below. Click OK.

Type the name for the new file	OK
	Cancel
new global aliasing database mdb	

Naming the New Configuration Database

3. The new file appears in the Global Aliasing Configurator subtree in the right-hand pane of the ProjectWorX console, as shown in the figure below.

	Name	Size	Modified
•	Rew global aliasing data	428 Kb	5/28/2002 1:09:36 F

New Database Added to Global Aliasing Configurator Tree

My Files Tree

The **My Files** tree in the ProjectWorX console, shown in the figure below, allows you to add any type of file you wish to the project. The only difference here is that you will not see the packing, unpacking, or Web publishing log files. To add a file:

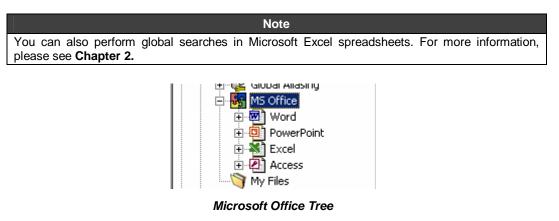
- 1. Right-click the **My Files** tree and select **Add File** from the pop-up menu, as shown in the figure below.
- 2. Choose a file to add, and then click **Open**. The new file appears in the right-hand pane of the ProjectWorX console.

Size Info.ini O bytes act 1.sec 278 byte actWorX32.mdb 516 Kb	es 12/16/2002 7:00:00 Af	м
ect 1.sec 278 byte	es 12/16/2002 7:00:00 Af	м

My Files Tree

Microsoft Office Tree

You have the option of displaying the (third-party) **Microsoft (MS)** Office tree in the ProjectWorX console. This tree, shown in the figure below, manages files for Microsoft Word, Microsoft PowerPoint, Microsoft Excel, and Microsoft Access, is hidden by default. When enabled in the **Show/Hide Applications** dialog box, the **MS** Office tree is displayed under the project **Applications** tree. The MS Office tree is similar to the other application trees in that you can create, add, copy, delete, and open files. You can also generate reports.



To display the MS Office tree:

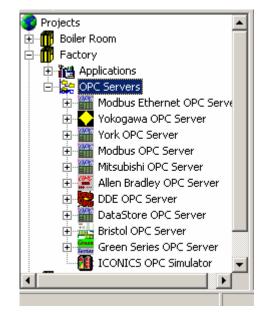
- **1.** Right-click the on the **Applications** tree and select **Customize** from the pop-up menu, as shown in the figure below.
- 2. This opens the Show/Hide Applications dialog box, as shown in the figure below. Check the MS Office in the dialog box. Click OK.

OPC Servers Tree

The **OPC Servers** tree for each project, shown in the figure below, allows you to create and manage OPC server configurations. Each time you create a new OPC server configuration inside a project in the **OPC Servers** tree, the new file is saved to the project folder in the "Bin" directory. If you add an existing configuration file, you have the option of copying the file to the project folder or running the file from its current location.

Note

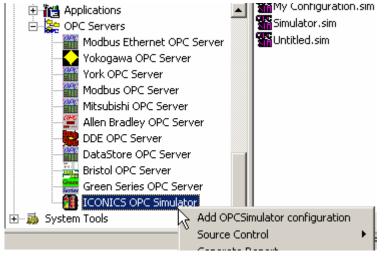
ProjectWorX currently supports configuration for the Simulator OPC Server only, which is installed with ProcessView. All other OPC servers (e.g. DataStore OPC Server, etc.) must be installed before you can configure them through ProjectWorX.



Project OPC Servers

OPC Simulator Tree

The **OPC Simulator** subtree component of the OPC Servers tree in the ProjectWorX console, shown in the figure below, includes all the Simulator OPC server configuration files available for a project. From here you can right-click and add existing configuration files to the project.



OPC Simulator Subtree

Creating a New Simulator OPC Server Configuration File

To create a new Simulator OPC Server configuration file in the ProjectWorX console:

1. Right-click OPC Simulator in the OPC Servers tree and select New OPC Simulator configuration from the pop-up menu, as shown in the figure below.



Creating a New OPC Simulator Configuration File

2. Give the new file a name, as shown in the figure below. Click OK.

Type the name for the new file	OK
	Cancel
My Configuration.sim	

Naming the New File

3. The new file appears in the **OPC Simulator** subtree in the right-hand pane of the ProjectWorX console, as shown in the figure below. ProjectWorX automatically launches the new file in Simulator OPC Server Configurator.

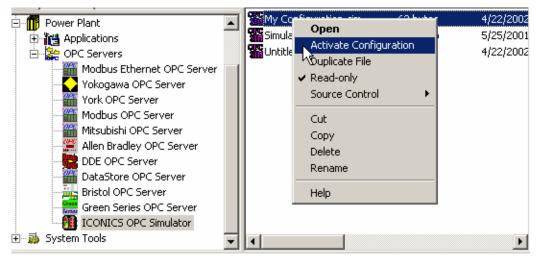
	Name	Size	Modified	Refer
1	My Configuration.sim	63 bytes	4/22/2002 4:33:04 PM	\W
1	Simulator.sim	22.78 КЬ	5/25/2001 6:10:00 AM	\\2
	🎇 Untitled.sim	63 bytes	4/22/2002 4:33:04 PM	\\t

New File Added to OPC Simulator Tree

Activating a Simulator OPC Server Configuration

The **OPC Simulator** in the **OPC Servers** tree provides an option to activate a Simulator OPC Server configuration file:

1. Right-click the configuration file and select **Activate Configuration** from the pop-up menu, as shown in the figure below.



Activating a Simulator OPC Server Configuration

2. ProjectWorX automatically launches the new file in Simulator OPC Server Configurator.

ProcessView Tray, System Tools and Security

ProcessView Tray

The **ProcessView Tray** tree of the ProjectWorX console, shown in the figure below, includes all the capabilities of the ProcessView ProcessView Tray application. When the ProcessView Tray tree is selected, a list of the ProcessView applications on the machine is provided, as shown in the figure below. From this list you can check to see whether a server or an application is running and browse their settings.

			Note			
The Pi	rocessView Tray tree shows d	lata for th	e active p	project only.		
ProjectWorX						
Action View Tools Help	> 🖻 🔃 📽 🖳 😫 🎽 📥 🤅	3, 1 👷				
Tree	Application 🛆	Applicatio	Status	Start with Project	Start Position	Start Delay
Projects	AlarmWorX AlarmWorX Logger	AWXLog32	Not Running	No	0	0
- 🎁 Project 2	AlarmWorX AlarmWorX Multimedia	AWXmmx32	Not Running	No	0	0
🗄 📲 Applications	AlarmWorX AlarmWorX Server	AWXSvr32	Not Running	No	0	0
OPC Servers	AlarmWorX Container	AWXcntnr32	Not Running	No	0	0
Project 1	AlarmWorX Multimedia Call In Server	MMXCallin	Not Running	No	0	0
🖹 🛗 Applications	🗱 DataWorX	DWX32	Not Running	No	0	0
🕀 🚰 AlarmWorX	🛃 GenAgent	GenAgent	Not Running	No	0	0
Application Tray	GenBroker	GenBroker	Not Running	No	0	0
🗈 🙀 DataWorX	GraphWorX	GWX32	Not Running	No	0	0
GenBroker Configurator	Screen Manager	ScrMgrBar	Running	No	0	0
 Configurations Configurations Configurations 	ScriptWorX	SWX32	Not Running	No	0	0
	Secure Desktop	SecDesk	Not Running	No	0	0
	IrendWorX Container	TWXcntnr32	Not Running	No	0	0
	TrendWorX Persistent Trending Configurator	TWXpst32	Not Running	No	0	0
⊕ My Files	TrendWorX TrendWorX Report ActiveX	TWXrpt32	Not Running	No	0	0
	TrendWorX TrendWorX SQL Server	TWXsql32	Not Running	No	0	0
🖅 🛃 Screen Manager 🛛 💌						
	▼					►
GenTray Configuration for ACTIVE Project (Affects Iconics Applications)						

ProcessView Tray Tree in ProjectWorX Console

Starting and Stopping Applications Using ProcessView Tray

ProcessView Tray provides a way to either manually or automatically start and/or stop applications within ProcessView. In the ProcessView Tray tree for the active project in the ProjectWorX console, you can specify which applications and servers to start and stop. You can also set up applications to run auto start upon Windows startup, setting their timing and launching position parameters.

	Note	2	
An application can be d ProcessView Tray.	etected as running only	y if the application is laur	ched through the

Starting Applications From ProcessView Tray

To launch an application from ProcessView Tray:

1. Right-click the application in the details view and select **All Tasks > Start** from the pop-up menu, as shown in the figure below.

AlarmWorX32 Logger	AWXLog	32 N
AlarmWorX32 Multimedi	ia Ser AWXmm	×32 N
AlarmWorX32 Server	AWXSvr	<u>32 N</u>
🚼 DataWorX32	All Tasks 🕨 🕨	Start
GenAgent	Properties	Stop 🗼 🛛
🛃 GenBroker		er N
GraphWorX32	Help	N
Screen Manager	ScrMgrB	ar N
ScriptWorX32	SWX32	N
Secure Decktop	Sachad	. N

Starting an Application in ProcessView Tray

2. The application is launched and the Status changes to Running, as shown in the figure below.

Application 🛆	Application ID	Status
nterver 🔐 AlarmWorX32 Callin Server	MMXCallin	Not Running
AlarmWorX32 Logger	AWXLog32	Not Running
🗬 AlarmWorX32 Multimedia	AWXmmx32	Not Running
AlarmWorX32 Server	AWXSvr32	Running
🔀 Data Wor X32	DWX32	Not Running
🛃 GenAgent	GenAgent	Not Running
GenBroker	GenBroker	Not Running
GraphWorX32	GWX32	Not Running
Screen Manager	ScrMorBar	Not Rupping

Application Running in ProcessView Tray

Stopping Applications From ProcessView Tray

To shut down a running application from ProcessView Tray:

1. Right-click the application in the details view and select **All Tasks > Stop** from the pop-up menu, as shown in the figure below.

Application 🗠		Application ID	Status	
🗬 Alarm Wor X32	AlarmWorX32 Callin Server		Not Running	
AlarmWorX32	2 Logger	AWXLog32	Not Running	
n AlarmWorX32	2 Multimedia	AWXmmx32	Not Running	
AlarmWorX32	2 Server	AWXSvr32	Running	
🎇 DataWorX3:	All Tasks 🛛	Start	Not Running	
🛃 GenAgent 💧	Properties	Stop	Not Running	
🚼 GenBroker 🛛	rioporados	- ienBroker	Not Running	
GraphWorX:	Help	WX32	Not Running	
Screen Mana	Screen Manager		Not Running	
		CU 11000		

Stopping an Application in ProcessView Tray

2. The application is stopped, and the status changes to **Not Running**, as shown in the figure below.

Application 🗠	Application ID	Status
AlarmWorX32 Callin Server	MMXCallin	Not Running
AlarmWorX32 Logger	AWXLog32	Not Running
AlarmWorX32 Multimedia	AWXmmx32	Not Running
AlarmWorX32 Server	AWXSvr32	Not Running
🙀 Data Wor X32	DWX32	Not Running
GenAgent	GenAgent	Not Running
GenBroker	GenBroker	Not Running
GraphWorX32	GWX32	Not Rupping

Application Stopped in ProcessView Tray

Setting Application Properties From ProcessView Tray

From the ProcessView Tray tree of the ProjectWorX console, you can view application properties for both clients and servers. Any changes that you make to the application properties settings are reflected in the details list of the ProjectWorX ProcessView Tray tree. To change the properties for an application, right-click the application in the details view and select **Properties** from the pop-up menu, as shown in the figure below.

Application	Application ID	Status
AlarmWorX32 Callin Serv	er MMXCallin	Not Running
AlarmWorX32 Logger	AWXLog32	Not Running
AlarmWorX32 Multimedia	AWXmmx32	Not Running
AlarmWorX32 Server	All Tasks	Not Running
🔁 DataWorX32		Not Running
🛃 GenAgent	Properties	Not Running
🛃 GenBroker		Not Running
GraphWorX32	Help°	Not Running
Screen Manager	ScrMgrBar	Not Running
		···- ·

Viewing Application Properties From the ProcesView Tray Tree

The **Properties** dialog box opens, as shown in the figure below. The properties indicate the current status of the application (i.e. Running or Not Running).

The server properties are slightly different from the client properties. The server properties have **Run as a Service** and **Run at Startup** options, while client properties instead have a **Command Line** feature that indicates the designated startup file for the application (as specified in the active project).

ProcessView Tray enables you register and run servers as an NT service. To convert a server to an NT service, check the **Run as a Service** check box, as shown in the figure below. Once an application is converted to an NT service, checking the **Run at Startup** check box makes it an automatic service so that it will automatically start every time the computer is restarted.

AlarmWorX	AlarmWorX Serv	er Propert	ies	<u>?</u> ×
General				
	Current Status			
V	Run as a Service		Run at Startup	
GenTray	Options			51
~	Auto Start		Auto Stop	
0	Startup Position	0	Shutdown Positio	n
0	Startup Delay	0	Shutdown Delay	
OK	Cancel	<u>A</u> P	pply He	lp

Server Properties

The **Auto Start** and **Auto Stop** options enable a ProcessView system application to be opened and shut down automatically and in an orderly fashion. Selecting these items puts the application in a management list with other applications that are auto started and auto stopped. The order in which these applications are started or stopped is determined by the relative start and stop positions specified in the application properties. Both the server properties and client properties dialogs have the following ProcessView Tray application startup and shutdown options, which set the start and stop parameters for the application:

- Auto Start: When checked, ProcessView Tray automatically launches the application upon ProcessView Tray startup.
- Startup Position: Specifies the order in which the application will be started (if multiple applications are auto started). For example, if both GraphWorX and AlarmWorX are to be auto started but you want GraphWorX to start before AlarmWorX starts, set the startup position for GraphWorX to "1" and the startup position for AlarmWorX to "2."
- Startup Delay: Sets the delay (in seconds) before the application is launched.
- Auto Stop: When checked, ProcessView Tray automatically stops the application upon ProcessView Tray shutdown.
- **Shutdown Position:** Specifies the order in which the application will be shut down (if multiple applications are auto stopped).
- Shutdown Delay: Sets the delay (in seconds) before the application is stopped.

Click the Apply button to set the parameters you have selected in the application properties.

GraphWorX3	2 Properties			? ×
General				
	Current Status Not F	Running		
Startup D	isplay : ["C:\Program F	iles\ICONICS\@	ENESIS-32\	1
GenTray	Options			
	Auto Start		Auto Stop	
1	Startup Position	2	Shutdown Position	n
d	Startup Delay	4	Shutdown Delay	
	01	K Ca	ancel App	ly

Client Properties

Viewing Application Parameters in ProcessView Tray

The parameters that are set the application properties are displayed in the details view of the ProcessView Tray, as shown in the figure below. The column headers indicate the following properties:

- Application: Name of the application.
- Application ID: Name of the application's executable file.
- Status: Current application status (i.e. Running or Not Running).
- Start With Project: States whether auto start is enabled for the application (i.e. Yes or No).
- **Start Position:** Specifies the order in which the application will be started (if multiple applications are auto started).
- Start Delay: Delay (in seconds) before the application is launched.
- Stop With Project: States whether auto stop is enabled for the application (i.e. Yes or No).
- **Stop Position:** Specifies the order in which the application will be shut down (if multiple applications are auto stopped).
- Stop Delay: Delay (in seconds) before the application is stopped.
- Run as Service: States whether a server is run as an NT service (i.e. Yes or No).
- Service Autorun: States whether a server run as an NT service will automatically start every time the computer is restarted (i.e. Yes or No).
- **Command Line:** Indicates the designated startup file/database for the application (as specified in the active project).

Start with Project	Start Position	Start Delay	Stop with Project	Stop Position	Stop Delay	Run as Service	Service Autorun
No	0	0	No	0	0	No	No
No	0	0	No	0	0	No	No
No	0	0	No	0	0	No	No
No	2	4	No	1	0	Yes	Yes
No	0	0	No	0	0	N/A	N/A
No	0	0	No	0	0	No	No
No	0	0	No	0	0	No	No
Yes	1	0	Yes	2	4	N/A	N/A
No	0	0	No	0	0	N/A	N/A
No	0	0	No	0	0	N/A	N/A
No	0	0	No	0	0	No	No
No	0	0	No	0	0	N/A	N/A
No	0	0	No	0	0	N/A	N/A
No	0	0	No	0	0	No	No

Application Parameters in ProcessView Tray Tree

System Tools

The **System Tools** tree of the ProjectWorX console is a snap-in from which you can conveniently launch all of the available ProcessView tools, as shown in the figure below. To launch a tool, double-click the tool in the right-hand pane of the ProjectWorX console. The tool's executable file is opened.

Projects Image: Configuration of the sector of the sec
Project 4 RenBroker Configurator GenBrokerConf.exe Boiler Room GenTray GenTray.exe Factory GenRegMon.exe
Boiler Room GenTray GenTray.exe Factory Cicense Monitor GenRegMon.exe
🕀 📶 Power Plant 🛛 🚮 MSDE Manager MSDE Manager.exe
OPC Simulator SimOPC.exe
🦓 Screen Manager ScrMgrBar.exe
Secure Configurator Security.exe
🐼 Secure Desktop Configurator SecureKeyCnfg.exe
🧱 Security Login Login.exe
Tag Browser TagBrowser.exe

System Tools Snap-in in ProjectWorX Console

Security Administration

Each of the ProjectWorX snap-ins has a toolbar button that provides direct access to the SMAR Security Server Login Utility, as shown in the figure below. You can also access the Security Login Utility from the System Tools snap-in.

\frown	Tools]
3 😰 🛯 🖹 🖿 😫 🌘 🕄 👔) 😰 🛛 🖫 🔚 🌆 😰 🌖 👘
\bigcirc	m Tools
	tation 🛆 🛛 🛛 EXE file name

Security Login Button in Snap-in Toolbars

Clicking the **Security Login** button on the toolbar launches the security login screen, as shown in the figure below.



Logging Into the Security Server

Logging into the Security Server provides the necessary rights to handle all the project operations with a proper security level. The actual access level is always shown in the bottom right-hand corner of the ProjectWorX console status bar, as shown in the figure below. There are three possible access levels:

- Full Access
- Read Only
- <no rights>



Security Status Shown in ProjectWorX Status Bar

Upon startup, ProjectWorX checks for the default security level of the machine. It also checks the ProcessView security settings using the **DEFAULT Application Action** user association list in the Security Configurator to determine the startup access level to ProjectWorX. The security access restrictions affect all the elements in ProjectWorX, so certain ProjectWorX elements are restricted (e.g. menus are grayed out, options are unavailable, etc.) if a user has read-only rights or no rights at all.

Note
For complete information about ProcessView security administration, please refer to the Security Configurator and Security Login Help documentation.

Backing up Projects to Visual SourceSafe

Visual SourceSafe Integration

ProjectWorX provides a feature that allows you to back up projects and application files to Microsoft® Visual SourceSafe. Microsoft Visual SourceSafe does not need to be installed on the same node as ProjectWorX. Typically, SourceSafe is installed on a network server, and the clients that check files in and check files out browse over the network to the "SrcSafe.ini" file on the remote (server) node.

Note											
Please re	efer to	the	Microsoft	Visual	Studio	and	Visual	SourceSafe	help	documentation	for
instructions on how to install and use Visual SourceSafe.											

Setting up a User Profile in Visual SourceSafe

Before you can login to Visual SourceSafe through ProjectWorX and back up your projects, you must configure a user profile in Visual SourceSafe:

1. From the Windows Start menu, select Programs > Microsoft Visual Studio > Microsoft Visual SourceSafe > Visual SourceSafe Administrator, as shown in the figure below.

Microsoft Excel				
💽 Microsoft FrontPage		👼 Microsoft Visual SourceSafe	- Þ 🛃	Analyze & Fix VSS DB
🙆 Microsoft Outlook	•	👌 Microsoft Visual Basic 6.0 👘		Analyze VSS DB
💼 Microsoft Press	•	👏 Microsoft Visual C++ 6.0	<u>.</u>	Microsoft Visual SourceSafe 6.0
👼 Microsoft Visual Studio 6.0	•	¥		🛛 Visual SourceSafe 6.0 Admin 🔪

Starting Microsoft Visual SourceSafe

2. In the Visual SourceSafe Login, enter an administrator password, as shown in the figure below. Click OK.

Visual Sour	ceSafe Login	×
Username:	Admin	
Password:	*****	
Database:	Common	Browse
OK	Cancel	Help

Visual SourceSafe Login

3. The Visual SourceSafe Administrator opens showing the user profiles, as shown in the figure below.

🔠 Visu	al SourceSafe	Administrator Common	
Users	Tools Archive	Help	
User	Rights	Logged In	
Admin	Read-Write	Yes	
Ready		Pr	oject Security: Off 🛛 🎢

Visual SourceSafe Administrator

4. To add a new user profile, select Add User from the Users menu, as shown in the figure below.

🌆 Visual SourceSafe Adminis	trator C	ommon	- D ×
Users Tools Archive Help			
Open SourceSafe Database	Ctrl+O		
Add User	Ctrl+A		
Delete User	Ctrl+D		
Edit User	Ctrl+E		
Change Password			
Exit			
Add a new user to the SourceSafe user list Project Security: Off			Off //

Adding a New User Profile

5. Enter a name and password for the new user, as shown in the figure below. Click **OK**.

Add User		×
User name:	projectworx	OK
Password:	*****	Cancel
	🗖 Read only	Help

Entering a User Name and Password for the New User

6. The new user is added to the Visual SourceSafe Administrator, as shown in the figure below.

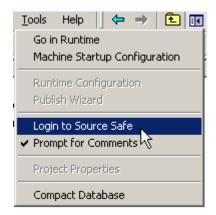
🗿 Visual So	🌆 Visual SourceSafe Administrator Common 📃 🗖 🗵			
Users Tools	Users Tools Archive Help			
User	Rights	Logged In		
Admin	Read-Write	Yes		
Projectworx	Read-Write			
Ready			Project Security: (Off //

New User Added to Visual SourceSafe Administrator

Logging Into Visual SourceSafe From ProjectWorX

Once you have configured a user login profile in the Visual SourceSafe Administrator, you can back up your ProjectWorX projects to Visual SourceSafe.

1. In the ProjectWorX console, select Login to SourceSafe from the Tools menu, as shown in the figure below.



Logging Into Visual SourceSafe Through the ProjectWorX Console

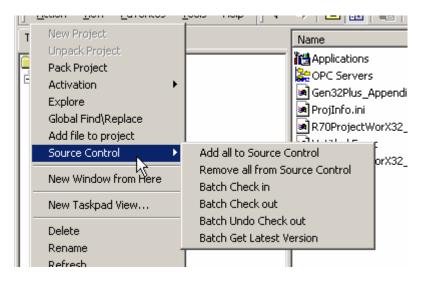
2. Enter your Visual SourceSafe user name and password (specified in the Visual SourceSafe Administrator settings), as shown in the figure below. The .ini file is the SourceSafe initialization file found on the node where SourceSafe is installed. Select an .ini file by clicking the ... button in the Visual SourceSafe Login dialog box and browsing (locally or over a network) for a file. Click **OK** to login to Visual SourceSafe. If any of these parameters is incorrect, you will be notified accordingly.

Note
It is recommended that you use the default .ini file provided by Visual SourceSafe.

🖷, Dialog Caption		×		
Login:	projectworx			
Password	******			
	J			
ini file C:\Program Files\Microsoft Visual Studio\Common\VS				
	OK Cancel			

Visual SourceSafe Login in ProjectWorX

3. Once you login, the **Source Control** menu becomes available on the **Action** menu of the ProjectWorX console when a project is selected, as shown in the figure below.



Source Control Menu Activated in ProjectWorX

Source Control Options

The **Source Control** menu on the **Action** menu of the ProjectWorX console provides options for backing up files to and retrieving files from the Visual SourceSafe database, as shown in the figure below.

ProjectWorX

T	New Project	Name	
	Unpack Project	Mapplications	
Ē	Pack Project	CPC Servers	
ㅂ	Activation 🕨		
	Explore	Gen32Plus_Ap	openal
	Global Find\Replace	ProjInfo.ini	
	Add file to project	R70ProjectWo	orX32_
	Add file to project	م منافقات الم	
	Source Control 🚬 🕨	Add all to Source Control	
	New Window from Here	Remove all from Source Control Batch Check in	orX32_
		batth check in	
	New Taskpad View	Batch Check out	
		Batch Undo Check out	
	Delete	Batch Get Latest Version	
	Rename -	Datch dec Latest Version	
	Defrech		
	Corrotti		

Source Control Menu Activated in ProjectWorX

The following general options are available:

- Add to Source Control: Makes a read-only copy of a file and backs up the file to the Visual SourceSafe database.
- **Remove from Source Control:** Removes or deletes the file from the Visual SourceSafe database.
- Check in: Backs up the latest version of a file to the Visual SourceSafe database.
- Check out: Retrieves a version of a file from the Visual SourceSafe database.
- Undo check-out: Nullifies the check-out of a file from the Visual SourceSafe database.
- Get latest version: Retrieves the most recent version of a file from the Visual SourceSafe database.
- **History:** Provides information about when a file was created and last modified as well as any comments or labels associated with each version of the file. Also specifies which version of the file to retrieve from the Visual SourceSafe database.

The Source Control options in ProjectWorX can be applied to the following denominations of files:

- Individual files
- Groups of application files
- Entire projects

Note

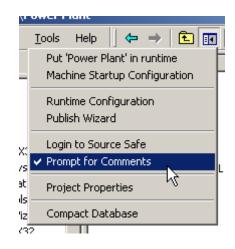
You must be logged into Visual SourceSafe in order to access the Source Control options. If you are not logged in, the **Source Control** menu is not available in the ProjectWorX console.

Comments for Source Control Actions

For each Source Control action (e.g. add, check-out, check-in, etc.), ProjectWorX prompts you to enter a comment to document the action because the **Prompt for Comments** option is selected by default in the **Tools** menu of the ProjectWorX console, as shown in the figure below. This way you have a record of each action and a detailed history for each file version in the Visual SourceSafe database.

Note

You can disable the **Prompt for Comments** option on the **Tools** menu, but this is not recommended.



Prompt for Comments Option Enabled

ProjectWorX provides a generic comment for each action, such as the example comment shown in the figure below. You can use this comment or type a new comment to associate with the file.

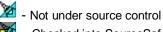
	×
Cancel	OK

Adding a Comment for Source Control Actions

Adding Files to Visual SourceSafe

The **Add to Source Control** option on the **Source Control** menu allows you to add individual files, groups of application files, and entire projects in the ProjectWorX console to the Visual SourceSafe database.

When you add a file to source control, the icon for the file will change. An item under source control that is checked in contains a yellow box in the lower-left corner. An item that is under source control and checked out contains a checkmark in the yellow box, as shown below.



- Checked into SourceSafe
- Output of SourceSafe

Adding Individual Files to Visual SourceSafe

To add a single file to Visual SourceSafe from ProjectWorX:

1. Right-click the file in the ProjectWorX console and select **Source Control > Add to Source Control**, as shown in the figure below.

·			00 🖂 🖡	• •	-v
24 😰					
;]	Name		Size		Modified
t 🔺	Display1.gdf		5.5 Kb		5/1/2002 1:37:04 PM
	🔀 CarPaint.gdf		1.56 Mb		7/6/2001 6:11:00 AM
r Room	CheeseDetail.g	ldf	253.5 Kb		7/6/2001 6:11:00 AM
ory	ChemFood_Bea	anRoaste	445 Kb		7/6/2001 6:11:00 AM
er Plant	QuickStartWalk	Thru.gdf	133.5 Kb		7/6/2001 6:11:00 AM
Applications	🕼 Main Display.go	f	5.5 Kb		5/1/2002 3:11:48 PM
🛃 GraphWorX32 📃	Display2.gdf		5.5 Kh		5/1/2002 3:52:58 PM
🛛 🎽 Displays	Display4.gdf	Open		- [5/7/2002 3:43:46 PM
🛛 🎦 Templates		Make St	artup Display		
- 👖 Symbols		Duplicati	e File		
		Read-or	ily		
🐴 AlarmWorX32 🔄		Source (Iontrol	۶Ľ	Add to Source Control
TrendWorX32				T	and the second

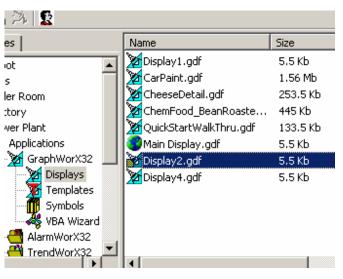
Adding a File to Visual SourceSafe

2. Type a comment to document the addition of the file to Visual SourceSafe, as shown in the figure below, and then click **OK**.

^X32	MuickStartWalkThru.gdf Main Display.gdf Display2.gdf	445 КО 133.5 КЬ 5.5 КЬ 5.5 КЬ	7/6/2001 6:11:00 7/6/2001 6:11:00 5/1/2002 3:11:40 5/1/2002 3:52:58
ys ates ols	Adding file Display2.gdf Comment		×
Vizard X32 ∙X32 ▼	Adding element from ProjectWo		
	Don't show this confirmation dialog _	Cancel	<u>OK</u>

Adding a Comment

3. Once the file is added to the Visual SourceSafe database, the icon next to the file name is marked with a yellow tag, as shown in the figure below. The file automatically becomes read-only (it cannot be modified).



File Added to Visual SourceSafe

Adding Groups of Application Files to SourceSafe

Just as you can add individual files to SourceSafe, ProjectWorX also allows you to add groups of application files to SourceSafe:

Right-click the file group (e.g. GraphWorX Displays) in the Applications tree in the ProjectWorX console and select Source Control > Add All to Source Control, as shown in the figure below.

ojects	🛛 🎽 CarPaint.	gdf	1.56 Mb	7/6/2001 €
Boiler Room	CheeseDe	etail.gdf	253.5 Kb	7/6/2001 €
Factory	ChemFoo	d_BeanRoaste	445 Kb	7/6/2001 (
Power Plant	QuickStar	tWalkThru.gdf	133.5 Kb	7/6/2001 t
- 🎦 Applications	🛛 🧭 Main Disp	lay.gdf	5.5 Kb	5/1/2002 (
🚊 液 GraphWorX32	Display2.	gdf	10.5 Kb	5/10/2002
Displays	Dicolout	-df	5.5 Kb	5/10/2002
🛛 🌇 Template	New Display			
🕂 👖 Symbols	Add Display			
🔄 🚜 VBA Wiz	Source Control	Add all t	o Source Contr	ol
🗄 ᠿ AlarmWorX3 🗌	View	Remove	all from Source	Constrol
🕀 🚆 TrendWorX3	New Window from Her	Batch Cl	heck in	
🗄 👯 DataWorX32 🔤	New Window from Her	Batch Cl	heck out	
🕀 💥 ScriptWorX3	New Taskpad View	Batch U	ndo Check out	
🗄 📷 MobileHMI —		Batch G	et Latest Versio	n
🗄 🚽 Screen Mana	Refresh	T		
📩 💶 caapaalaan	From a schol i sale			

Adding a Group of Files to SourceSafe

2. Type a comment to document the addition of the file group to Visual SourceSafe, as shown in the figure below, and then click **OK**.

🐂 Adding file Display1.gdf		×
Comment		
Batch Add from ProjectWorX		
Don't show this confirmation dialog	Cancel	OK

Adding a Comment

3. The entire group of files is added to the Visual SourceSafe database. The icon next to each file name is marked with a yellow tag, as shown in the figure below. The files automatically become read-only (they cannot be modified).

es	Name	Size	Modified
er Room	Display1.gdf	5.5 Kb	5/1/2002 1:37:04 PM
:tory	CarPaint.gdf	1.56 Mb	7/6/2001 6:11:00 AM
ver Plant,	CheeseDetail.gdf	253.5 Kb	7/6/2001 6:11:00 AM
Applications	ChemFood_BeanRoaste	445 Kb	7/6/2001 6:11:00 AM
液 GraphWorX32	🚰 QuickStartWalkThru.gdf	133.5 Kb	7/6/2001 6:11:00 AM
Displays	Main Display.gdf	5.5 Kb	5/1/2002 3:11:48 PM
Templates	Display2.gdf	10.5 Kb	5/10/2002 6:25:06 PI
💮 Symbols	Display4.gdf	5.5 Kb	5/10/2002 5:45:30 PI
🦂 VBA Wizard			
diarmWorX32	1		
Ӓ TrendWorX32 📃			

Group of Files Added to Visual SourceSafe

Adding Projects to Visual SourceSafe

Just as you can add individual files and groups of files to Visual SourceSafe, ProjectWorX also allows you to add all the files in a project to Visual SourceSafe at once:

1. Right-click the project (e.g. Power Plant) in the **Applications** tree in the ProjectWorX console and select **Source Control > Add All to Source Control**, as shown in the figure below.

Projects Projects Power Plant Power Plant Grap Grap Alari	New Project Unpack Project Pack Project Activation Explore Global Find\Replace Add file to project	o.ini	1.22 Kb 278 bytes 666 bytes 666 bytes <unknown></unknown>	4/ 4/ 3/ <\
🕀 🕂 🕂 Trer	Source Control	Add all to Source	e Control	
⊕ ¥ Data ⊕ <mark>≫</mark> Scrip ⊕ × Mob	View New Window from Here	Remove all from Batch Check in	Source Contrฟ	

Adding a Project to SourceSafe

2. Type a comment to document the addition of the project to Visual SourceSafe, as shown in the figure below, and then click **OK**.

💐 Adding file Display1.gdf		×
Comment		
Batch Add from ProjectWorX		
Don't show this confirmation dialog	Cancel	OK DK

Adding a Comment

3. All files in the project are added to the Visual SourceSafe database. The icon next to each file name is marked with a yellow tag, as shown in the figure below. The files automatically become read-only (they cannot be modified).



All Project Files Added to Visual SourceSafe

Viewing Files Added to Visual SourceSafe

To view your files in Visual SourceSafe:

1. From the Windows Start menu, select Programs > Microsoft Visual Studio > Microsoft Visual SourceSafe > Microsoft Visual SourceSafe, as shown in the figure below.

Microsoft Excel		
🚫 Microsoft FrontPage	👼 Microsoft Visual SourceSafe 🕨	😡 Microsoft Visual SourceSafe 6.0 🔪
🙆 Microsoft Outlook	🚖 🛛 Microsoft Visual Basic 6.0	🗐 Visual SourceSafe 6.0 Admin 🤟
💼 Microsoft Press	🕨 🥙 Microsoft Visual C++ 6.0	×
🔚 Microsoft Visual Studio 6.0	> ×	

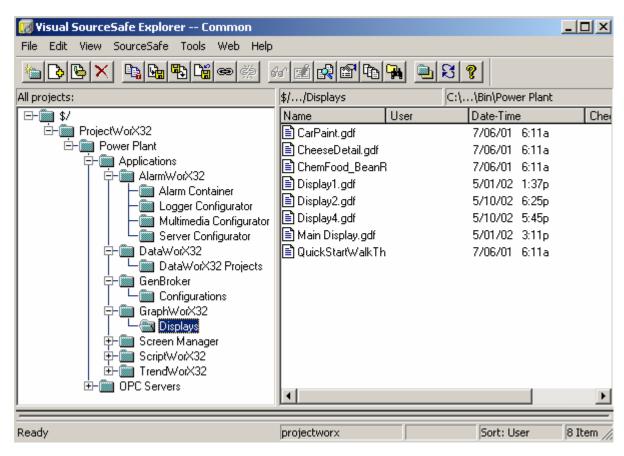
Opening Microsoft Visual SourceSafe

2. In the Visual SourceSafe Login, enter a user name and password, as shown in the figure below. Click OK.

Visual SourceSafe Login		
Username:	projectworx	
Password:	*****	
Database:	Common	Browse
OK	Cancel	Help

Visual SourceSafe Login

3. The Visual SourceSafe Explorer opens, as shown in the figure below. As you can see, the project directory structure of the ProjectWorX console is preserved in the Visual SourceSafe Explorer so you can easily locate the files you have added to Visual SourceSafe.



Viewing Files in the Visual SourceSafe Explorer

Checking Files out of Visual SourceSafe

Once a file is added to the Visual SourceSafe, the file becomes read-only. In order to modify the file, you must check it out of Visual SourceSafe. Checking out a file does not remove the file from the Visual SourceSafe database. Instead ProjectWorX retrieves a version of the file and removes the read-only status from the file. You can check out both individual files and batches of files.

Checking Individual Files out of Visual SourceSafe

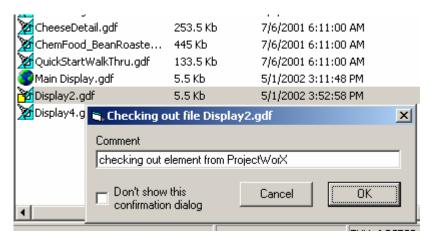
To check a single file out of Visual SourceSafe:

1. Right-click the file in the ProjectWorX console and select **Source Control > Check Out**, as shown in the figure below.

Applications GraphWorX32 Displays Templates	CheeseDetail ChemFood_Bo QuickStartWa	eanRoaste IkThru.gdf gdf	253.5 Kb 445 Kb 133.5 Kb 5.5 Kb	7/6/2001 6:11:00 AM 7/6/2001 6:11:00 AM 7/6/2001 6:11:00 AM 5/1/2002 3:11:48 PM
Symbols VBA Wizard AlarmWorX32 TrendWorX32	Display2.gdf	open	up Display File	5/1/2002 3:52:58 PM 5/10/2002 5:45:30 PM
ScriptWorX32		Source Co Cut Copy	ntrol 🕨	Remove from Source Control Check In Check Out Undo CheckSout

Checking a File out of SourceSafe

2. Type a comment to document the file check-out, as shown in the figure below, and then click OK.



Adding a Comment Upon File Check-out

3. Once the file is checked out of the Visual SourceSafe database, a red check mark is appears on the icon next to the file name, as shown in the figure below. The file's read-only status is temporarily removed so it can be modified. The read-only status is not restored until the file is checked back into the Visual SourceSafe database.

🗌 📶 Cheesebetaii. gui	200.0 KU
ChemFood_BeanRoaste	445 Kb
QuickStartWalkThru.gdf	133.5 Kb
Main Display.gdf	5.5 Kb
Display2.gdf	5.5 Kb
Display4.gdf	5.5 Kb

File Checked out of Visual SourceSafe

Checking Batches of Files out of Visual SourceSafe

To check a batch of files (i.e. files for an entire group or project) out of Visual SourceSafe:

1. Right-click the group or project in the ProjectWorX console and select **Source Control > Batch Check Out**, as shown in the figure below.

Projects Boiler Room Factory Power Plant Control Applications GraphWorX32	CheeseDetail.go CheeseDetail.go ChemFood_Bear QuickStartWalk1	nRoaste Thru.gdf	1.50 MD 253.5 Kb 445 Kb 133.5 Kb 5.5 Kb 10.5 Kb 5.5 Kb	7/6/200 7/6/200 7/6/200 5/1/200 5/1/200 5/10/20 5/10/20	1 6:1: 1 6:1: 1 6:1: 2 3:1: 02 6:2
Templat	New Display Add Display		5.5 KD	5/10/20	JZ 5;*
📕 🦧 VBA Wiz	Source Control 🔶 🕨		o Source Contro all from Source		
⊕ 😋 AlarmWorX3 ⊕ 🥰 TrendWorX3	View New Window from Here	Batch Ch	ieck in	Control	
🗄 🅵 DataWorX32 _		Batch Ch			
🕀 💆 ScriptWorX3	New Taskpad View		ido Check ol		
🗄 🚹 MobileHMI 🦳		Batch Ge	t Latest Version	ו ר	

Checking a Batch of Files out of SourceSafe

2. Type a comment to document the batch check-out, as shown in the figure below, and then click OK.

🐂 Checking out file Display	y1.gdf	×
Comment		
Batch check-out from Project	WorX	
Don't show this confirmation dialog	Cancel	ОК

Adding a Comment Upon Batch Check-out

3. Once files are checked out of the Visual SourceSafe database, a red check mark is appears on the icon next to each file name, as shown in the figure below. Each file's read-only status is temporarily removed so it can be modified. The read-only status is not restored until the file is checked back into the Visual SourceSafe database.

	Name	Size	Modified
	🛾 💏 Display 1.gdf	5.5 Kb	5/1/2002 1:37
	CarPaint.gdf	1.56 Mb	7/6/2001 6:11
Room	CheeseDetail.gdf	253.5 Kb	7/6/2001 6:11
у	ChemFood_BeanRoaste	445 Kb	7/6/2001 6:11
Plant	QuickStartWalkThru.gdf	133.5 Kb	7/6/2001 6:11
plications	Main Display.gdf	5.5 Kb	5/1/2002 3:11
GraphWorX32	Display2.gdf	10.5 Kb	5/10/2002 6:2
Displays	Display4.gdf	5.5 Kb	5/10/2002 5:4
Templates	11		
👖 Symbols	11		
🛶 🦇 VBA Wizard			

Batch of Files Checked out of Visual SourceSafe

Undoing File Check Out From SourceSafe

If you check a file out of SourceSafe and later decide you do not want to check it out, you can nullify the check out by right-clicking the file in the ProjectWorX console and selecting **Source Control > Undo Check Out**, as shown in the figure below.

Select Batch Undo Ch	eck Out to nullify che	Note ck-out		9 5 .
Applications GraphWorX32	AuickStartWalkThro Main Display.gdf	u.gdf	133.5 КЬ 5.5 КЬ	7/6/2001 6:11:00 AM 5/1/2002 3:11:48 PM
Displays Templates Symbols VBA Wizard	Display2.gdf Display4.gdf	Dup	en e Startup Display licate File d-only	- F(1/2002 3:52:58 PM (10/2002 5:45:30 PM
TrendWorX32 DataWorX32 ScriptWorX32 MobileHMI	•	Cut Cop Dele	•	Remove from Source Co Check In Check Out Undo Check out Get Latest Version

Undoing File Check out From SourceSafe

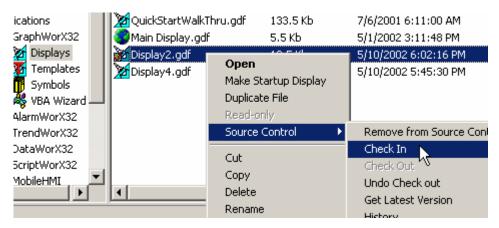
Checking Files Into Visual SourceSafe

Once a file is checked out of Visual SourceSafe, the read-only status is temporarily removed so it can be modified. To back up the recent changes to the file and to restore the file's read-only status, you must check the file back into the Visual SourceSafe. You can check in both individual files and batches of files.

Checking Individual Files Into Visual SourceSafe

To check a single file into Visual SourceSafe:

1. Right-click the file in the ProjectWorX console and select **Source Control > Check In**, as shown in the figure below.



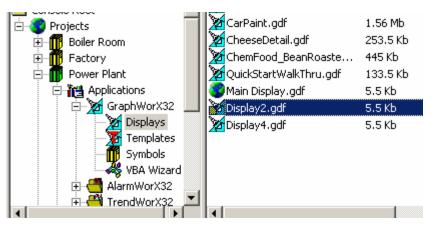
Checking a File Into SourceSafe

2. Type a comment to document the file check-in, as shown in the figure below, and then click OK.

ry	CheeseDetail.gdf	253.5 Kb	7/6/2001 6:11:00 AM
r Plant	ChemFood_BeanRoaste	445 Kb	7/6/2001 6:11:00 AM
pplications	🛛 🎽 QuickStartWalkThru.gdf	133.5 Kb	7/6/2001 6:11:00 AM
🖌 GraphWorX32	Main Display.gdf	5.5 Kb	5/1/2002 3:11:48 PM
Displays	Display2.gdf	10.5 Kb	5/10/2002 6:02:16 PM
	Display 🛋 Checking in f	ile Dicelau2 adf	
👖 Symbols		ile Display2.gor	×
🔄 🥰 VBA Wizard 💻	Comment		
👌 AlarmWorX32 👘	checking in elem	ent from ProjectWo	ntX
👌 TrendWorX32 👘			
👌 DataWorX32 👘	— Don't show th	is C	ancel OK
💈 ScriptWorX32 📃	confirmation d		
🖁 MobileHMI 🚬 工			

Adding a Comment Upon File Check-in

3. Once the file is checked back into the Visual SourceSafe database, the red check mark is removed from the icon next to the file name, as shown in the figure below. The file's read-only status is restored so it cannot be modified.



Project File Checked Into Visual SourceSafe

Checking Batches of Files Into Visual SourceSafe

To check a batch of files (i.e. files for an entire group or project) into Visual SourceSafe:

1. Right-click the group or project in the ProjectWorX console and select **Source Control > Batch Check In**, as shown in the figure below.

		Name		Size	Modified
		💑 Display 1.gdf		5.5 Kb	5/1/2002
		🈿 CarPaint.gdf		1.56 Mb	7/6/2001
loom		🎢 CheeseDetail.g	ldf	253.5 Kb	7/6/2001
/		MarchemFood_Bea	anRoaste	445 Kb	7/6/2001
Plant		🎢 QuickStartWalk	Thru.gdf	133.5 Kb	7/6/2001
plications		💏 Main Display.go	f	5.5 Kb	5/1/2002
GraphWorX32		💏 Display2.gdf		10.5 Kb	5/10/200
Displays	Nou Dico	Nadar I a International	1	5.5 Kb	5/10/200
Templat	New Disp				
Symbols	Add Displ		l Add all to	Source Control	
K VBA Wiz	Source C	ontroi 🗸		all from Source (
AlarmWorX:	View	+			
TrendWorX:	New Wind	dow from Here	Batch Ch		
DataWorX3 _			Batch Ch	eckout 🧟	
ScriptWorX:	New Task	kpad View	Batch Un	do Check out	
MobileHMI —	D . C 1		Batch Ge	t Latest Version	
Screen Man	Refresh		1		

Checking a Batch of Files Into SourceSafe

2. Type a comment to document the batch check-in, as shown in the figure below, and then click OK.

🛢. Checking in file Display1	l.gdf	×
Comment		
Batch check-in from ProjectW	/orX	
Don't show this confirmation dialog	Cancel	<u>ок</u>

Adding a Comment Upon File Check-in

3. Once the files are checked back into the Visual SourceSafe database, the red check mark is removed from the icon next to each file name, as shown in the figure below. Each file's read-only status is restored so it cannot be modified.

es		Name	Size	Modified	
er Room		Display1.gdf	5.5 Kb	5/1/2002 1:37:04 PM	
:tory		CarPaint.gdf	1.56 Mb	7/6/2001 6:11:00 AM	
ver Plant		CheeseDetail.gdf	253.5 Kb	7/6/2001 6:11:00 AM	
Applications		ChemFood_BeanRoaste	445 Kb	7/6/2001 6:11:00 AM	
液 GraphWorX32		🚰 QuickStartWalkThru.gdf	133.5 Kb	7/6/2001 6:11:00 AM	
Displays		😚 Main Display.gdf	5.5 Kb	5/1/2002 3:11:48 PM	
- 🈿 Templates		Display2.gdf	10.5 Kb	5/10/2002 6:25:06 PI	
🕂 🎹 Symbols		🚰 Display4.gdf	5.5 Kb	5/10/2002 5:45:30 PI	
🔄 🥰 VBA Wizard					
AlarmWorX32					
arendWorX32 🗧 🦰		1			

Project File Checked Into Visual SourceSafe

Retrieving File Versions From Visual SourceSafe

One of the major advantages of using Visual SourceSafe to back up your application files in ProjectWorX is that Visual SourceSafe database maintains multiple versions of the same file. Every version of a file has a version number with a date and time as well as any relevant comments or labels. Each time the file is modified, resaved, and then checked back into SourceSafe, the previous version of the file is not overwritten. Instead each version is stored separately so you can refer to previous versions of the file as needed.

Two Source Control options in the ProjectWorX console allow you to specify which version of a file to retrieve from the Visual SourceSafe database:

- Get latest version: Retrieves the most recent version of a file from the Visual SourceSafe database.
- **History:** Provides information about when a file was created and last modified as well as any comments associated with each version of the file. Also specifies which version of the file to retrieve from the Visual SourceSafe database.

Getting the Latest File Version

To retrieve the most recent version of a file from the Visual SourceSafe database:

1. Right-click the group or project in the ProjectWorX console and select **Source Control > Get** Latest Version, as shown in the figure below.

Note

To get the latest version for a batch of files, select **Batch Get Latest Version** from the **Source Control** menu.

oot :s ler Room :tory wer Plant	Display1.gdf CarPaint.gdf CheeseDetail. ChemFood_Be	anRoaste kThru.gdf	133.5 Kb	5/1/2002 1:37:04 PM 7/6/2001 6:11:00 AM 7/6/2001 6:11:00 AM 7/6/2001 6:11:00 AM 7/6/2001 6:11:00 AM
Applications GraphWorX32 Displays Templates Symbols	Main Display.gdf	Open	5.5 Kb 10.5 Kb rtup Display File	5/1/2002 3:11:48 PM 5/10/2002 6:25:06 PM 5/10/2002 5:45:30 PM
VBA Wizard AlarmWorX32 TrendWorX32 DataWorX32 ScriptWorX32 MobileHMI Screen Manager GenBroker		✓ Read-online Source Co Cut Copy Delete Rename	·	Remove from Source Control Check In Check Out Undo Check out Get Latest Version History

Getting the Latest Version of a File From SourceSafe

2. As you can see in the figure below, the latest version is retrieved and the date of the file is refreshed.

Note
Retrieving the latest file version is not the same as checking a file out of the Visual SourceSafe
database. When the latest version of the file is retrieved, the file maintains its read-only status.

	Name	Size	Modified
	Display1.gdf	5.5 Kb	5/1/2002 1:37:04 PM
	CarPaint.gdf	1.56 Mb	7/6/2001 6:11:00 AM
Room	CheeseDetail.gdf	253.5 Kb	7/6/2001 6:11:00 AM
У	ChemFood_BeanRoaste	445 Kb	7/6/2001 6:11:00 AM
Plant	🚰 QuickStartWalkThru.gdf	133.5 Kb	7/6/2001 6:11:00 AM
plications	Main Display.gdf	5.5 Kb	5/1/2002 3:11:48 PM
GraphWorX32	Display2.gdf	10.5 Kb	5/13/2002 11:55:46 AM
Displays Templates Symbols VBA Wizard	🚰 Display4.gdf	5.5 Kb	5/10/2002 5:45:30 PM

Latest Version of File Retrieved From SourceSafe

Viewing File History

The History option in the ProjectWorX Source Control provides information about when a file was created and last modified as well as any comments or labels associated with each version of the file. To review the history for a file:

1. Right-click the file in the ProjectWorX console and select **Source Control > History**, as shown in the figure below.

iler Room ctory wer Plant Applications	習 CheeseDetail。 習 ChemFood_Be 習 QuickStartWa の Main Display。(eanRoaste 445 Kb IkThru.gdf 133.5 Kl	7/6/2001 €
GraphWorX32	Display2.gdf	10.5 Kb	5/13/2002
Displays Templates Symbols VBA Wizard	Y Open Make Start Duplicate F		5/10/2002
	Source Cor		ve from Source Cont
Moharamonoc DataWorX32	Cut Copy Delete Rename		k Out Check out atest Version

Viewing the History for a File

- **2.** The history dialog box opens, as shown in the figure below, showing the following information about the file:
- Version Number: Lists all versions of the file from oldest to most recent (i.e. version "1" is the oldest). To view the history of a different version of the file, click the up and down arrows. To retrieve the currently selected version, click the Get button.
- User: Name of the user currently logged into Visual SourceSafe.
- **Date:** Shows the date and time of the currently selected file version.
- Action: Documents the last type of modification to the file version.
- Comment: Shows any comments entered for each version's (e.g. check-in, check-out, etc.)
- Label: Shows a label for each version (if applicable).

Note

To make a version easier to identify, you can assign it a label in Visual SourceSafe (any string up to 31 characters) and refer to the version by its label. Each time the **Label** command is used in Visual SourceSafe, a new version of the selected file is created, and the label is associated with that version.

• Label Comment: Shows any additional comments added while creating a file version label in Visual SourceSafe.

ProjectWorX

, Get Parti	cular Version	l l
User:	Projectworx	<u>C</u> lose
Date:	13/5/2002 12:28	<u>G</u> et
Action:	Labeled 'Power Plant Display'	
Comment:		
Label:	Power Plant Display	
Label Comment:	User interface for power plant operation	
Version Nu	mber 5 🔺 of 6	

Viewing File History and Version Information

Removing Files from Visual SourceSafe

To remove a file from Visual SourceSafe:

1. Right-click the file in the ProjectWorX console and select **Source Control > Remove From Source Control**, as shown in the figure below.

	Name	Size	Modified
	Display1.gdf	5.5 Kb	5/1/2002 1:37:04 PM
	CarPaint.gdf	1.56 Mb	7/6/2001 6:11:00 AM
om	CheeseDetail.gdf	253.5 Kb	7/6/2001 6:11:00 AM
	ChemFood_BeanRoaste	445 Kb	7/6/2001 6:11:00 AM
ant	💑 QuickStartWalkThru.gdf	133.5 Kb	7/6/2001 6:11:00 AM
tations	Main Display.gdf	5.5 Kb	5/1/2002 3:11:48 PM
iraphWorX32	Display2.gdf	11 Kb	5/13/2002 12:29:42 PM
哲 Displays	Dis <u>play4.qdf</u>	<u>5.5 K</u> b	5/10/2002 5:45:30 PM
Templates	Open		
Symbols	Make Startup Displa	зу	
😽 VBA Wizard	Duplicate File		
larmWorX32 rendWorX32	✓ Read-only		
renuworx32 iataWorX32	Source Control	Remove	from Source Control
criptWorX32	Cut	Check In	15
1obileHMI	Сору	Check O	ut
creen Manager	Delete	Undo Ch	eck out

Removing a File From SourceSafe

2. A message box appears asking you if you want to remove the file. If **Remove SourceSafe Copy** is checked, the file is removed from the Visual SourceSafe Explorer but a copy of the file remains in the Visual SourceSafe database. If **Destroy SourceSafe copy permanently** is checked, file is permanently deleted from the SourceSafe database and cannot be retrieved. Click **Yes** to proceed with the file removal.

🐃 Removing	×
Are you sure you want to remove Display4.gdf from source control?	
✓ Remove Source Safe copy ✓ Destroy Source Safe copy permanently	-1
<u>Y</u> es <u>N</u> o	

Confirming File Removal

3. Once the file is removed from Visual SourceSafe, the yellow tag is removed from the file icon in the ProjectWorX console, as shown in the figure below, and the file's read-only status is removed.

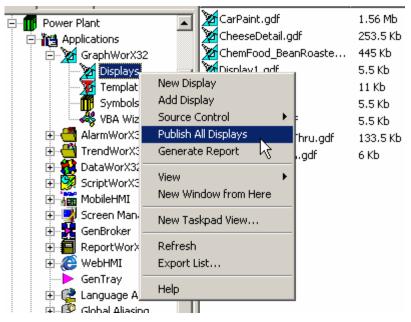
1	Name	Size	Modified
	Display1.gdf	5.5 Kb	5/1/2002 1:37:04 PM
	CarPaint.gdf	1.56 Mb	7/6/2001 6:11:00 AM
Room	CheeseDetail.gdf	253.5 Kb	7/6/2001 6:11:00 AM
ry	ChemFood_BeanRoaste	445 Kb	7/6/2001 6:11:00 AM
r Plant	💑 QuickStartWalkThru.gdf	133.5 Kb	7/6/2001 6:11:00 AM
pplications	Main Display.gdf	5.5 Kb	5/1/2002 3:11:48 PM
GraphWorX32	Display2.gdf	11 Kb	5/13/2002 12:29:42 PM
	Display4.gdf	5.5 Kb	5/10/2002 5:45:30 PM
Templates Symbols VBA Wizard AlarmWorX32 TrendWorX32	k 		

File Removed From Visual SourceSafe

Web Publishing in ProjectWorX

Using the Web Publishing Wizard

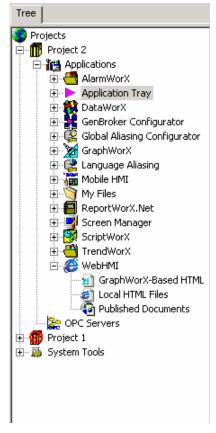
The Web Publishing Wizard can be accessed through ProjectWorX console, allowing you to easily export/publish one or more GraphWorX display files within a project to a Web server. As shown in the figure below, the **Applications/GraphWorX/Displays** tree of each project includes an option to publish a single display or multiple displays in the project.



Publishing GraphWorX Displays From the ProjectWorX Console

The **WebHMI** tree under the **Applications** tree for each project in the ProjectWorX console, shown in the figure below, manages Web publishing for the entire project. From here you can right-click and publish HTML files to a Web server. The WebHMI tree includes the following three categories:

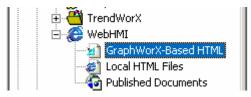
- GraphWorX-Based HTML
- Local HTML Files
- Published Documents



WebHMI Tree in ProjectWorX Console

GraphWorX-Based HTML

The **GraphWorX-Based HTML** subtree of the WebHMI tree, shown in the figure below, contains HTML files generated from exported GraphWorX displays. These HTML files have embedded code for accommodating a GraphWorX Viewer ActiveX Control. Any requested local copy of a GraphWorX-based HTML file generated from the Web Publishing Wizard is stored in this folder. (See the "Web Publishing Wizard" section below for more information on exporting and publishing HTML files from GraphWorX displays.) The ProjectWorX database maintains a record of which local GraphWorX display (.gdf) files each of these HTML files depends on. Documents in this folder can be added, removed, copied, pasted, opened, edited, added to Microsoft Visual SourceSafe, searched, replaced, and packed the same way items from other categories can.



GraphWorX-Based HTML Subtree

Local HTML Files

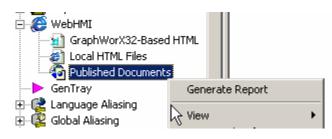
The **Local HTML Files** subtree of the WebHMI tree stores basic HTML files that were not generated from the Web Publishing Wizard. Here you can add, delete, edit, and maintain various HTML files.



Local HTML Files Subtree

Published Documents

The **Published Documents** subtree of the WebHMI tree, shown in the figure below, maintains a list of all HTML files that have been exported/published from ProjectWorX.



Published Documents Subtree

In the right-hand pane of the ProjectWorX Console, each item is listed as a URL with the date it was published, as shown in the figure below. For information about publishing files from ProjectWorX, please see "Using the Web Publishing Wizard."

URL	Publish Date
Interpart Content of the second se	7/5/2002 6:34:
The second se	7/5/2002 6:50:
http://www.webhmi.com/backup2/webHMI/NewFile.htm	7/5/2002 6:50:
Interpart Content of Content o	7/9/2002 10:40

List of All Documents Published From ProjectWorX

Launching the Web Publishing Wizard in ProjectWorX

The Web Publishing Wizard in ProjectWorX performs two basic operations:

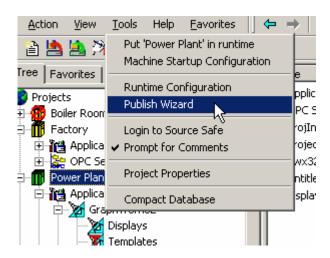
- 1. The Wizard creates HTML files based user-specified GraphWorX display (.gdf) files.
- 2. The Wizard then either "exports" (saves) the HTML files to a user-specified directory on the local drive and/ or "publishes" (uploads) the HTML file to a user-specified Web server URL address (i.e. over the Internet or an intranet).

🖏 Smar Web Publishing Wizard 🛛 🔍 🗶	:
Publish Web Page	
(Display Name).htm	
Based on Source File	
(All GraphWorX displays in Project)	
- Publishing Options	
✓ Publish to Web Server	
http://localhost/webhmi	
Export Local Copy	
C:\Program Files\Smar\ProcessView\Projects\Project 2\Appli	
Publishing Customization	
Publishing customization allows you to change Web Publishing Settings. Advanced	
OK Cancel <u>H</u> elp	

Web Publishing Wizard in ProjectWorX Console

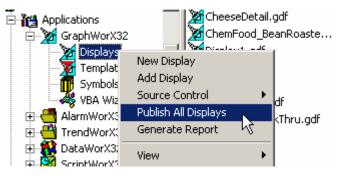
You can open the Web Publishing Wizard dialog from the ProjectWorX console in the following ways:

• Select the project root and then choose **Publish Wizard** from the **Tools** menu, as shown in the figure below. In this case, both the **Publish Web Page** field and the **Based on Source File** field in the Web Publishing Wizard dialog are read-only and contain the text "(Display Name).htm" and "(All GraphWorX Displays in Project)," respectively. The browse (...) button is also disabled.



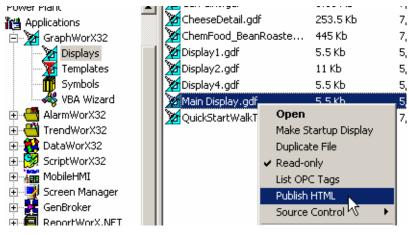
Opening the Publishing Wizard From the Tools Menu

Right-click on the Applications/GraphWorX/Displays tree and select Publish All Displays, as shown in the figure below. In this case, both the Publish Web Page field and the Based on Source File field in the Web Publishing Wizard dialog are read-only and contain the text "(Display Name).htm" and "(All GraphWorX Displays in Project)," respectively. The browse (...) button is also disabled.



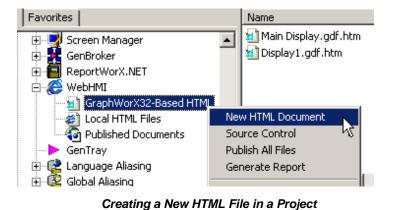
Publishing All GraphWorX Displays in a Project

• Right-click on a GraphWorX display and select **Publish HTML**, as shown in the figure below. In this case, the **Based on Source** field in the Web Publishing Wizard dialog is read-only and contains the name of the selected GraphWorX display. The browse (...) button is also disabled.



Publishing a GraphWorX Display File

 Right-click on the Applications/WebHMI/GraphWorX-Based HTML tree and select New HTML Document, as shown in the figure below. In this case, you need to specify a GraphWorX display file in the Based on Source File field by browsing for the file or by typing in the file name. You also need to specify the name of the new HTML file in the Publish Web Page field.



Export and Publish Options in ProjectWorX

The Web Publishing Wizard in the ProjectWorX console, shown in the figure below, generates an HTML file based on one or more user-specified GraphWorX display (.gdf) files. Then the Wizard either "exports" (saves) the HTML file to a user-specified directory on the local drive or "publishes" (uploads) the HTML file to a user-specified Web server URL address (i.e. over the Internet or an intranet).

You have the following options when using the Web Publishing Wizard for a project:

- Export and/or publish all GraphWorX display files in the project.
- Export and/or publish a single GraphWorX display file in the project.
- Export a display file locally
- Publish a display file to a Web server.

Note Both the **Publish to Web Server** and **Export Local Copy** actions can be performed at the same time.

🕻 Web Publishing Wizard	
Publish Web Page	_
Main Display.htm	
*	
- Based on Source File	
n\Project 1\Applications\GraphWorX32\Displays\Main Display.gdf	
Publishing Options	-
Publish to Web Server	
http://www.myserver.com/WebHMI	
Export Local Copy	
C:\Program Files\ICONICS\GENESIS-32\Bin\Project 1\Appli	
Publishing Customization	
Publishing customization allows you to change Web	
Publishing Settings. <u>A</u> dvanced	
OK Cancel <u>H</u> elp	

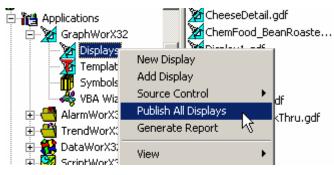
Web Publishing Wizard in ProjectWorX Console

Exporting and Publishing Multiple GraphWorX Display Files in ProjectWorX

In ProjectWorX, you can export and/or publish multiple GraphWorX display files using the Web Publishing Wizard.

To export/publish all displays in a project:

1. Select the project root and then choose Publish Wizard from the Tools menu, or right-click on the Applications/GraphWorX/Displays tree and select Publish All Displays, as shown in the figure below.



Launching the Web Publishing Wizard

2. This launches the Web Publishing Wizard, as shown in the figure below. In this case, both the **Publish Web Page** field and the **Based on Source File** field in the Web Publishing Wizard dialog are read-only and contain the text "(Display Name).htm" and "(All GraphWorX Displays in Project)," respectively. The browse (...) button is also disabled.

🖏 Smar Web Publishing Wizard	×
Publish Web Page (Display Name).htm	
Based on Source File	
(All GraphWorX displays in Project)	
Publishing Options	
http://localhost/webhmi	
Export Local Copy C:\Program Files\Smar\ProcessView\Projects\Project 2\Appli	
Publishing Customization Publishing customization allows you to change Web Publishing Settings	
Publishing SettingsAdvanced	
OK Cancel <u>H</u> elp	

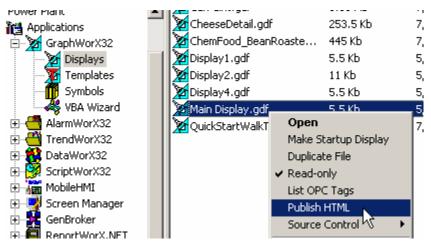
Publishing All GraphWorX Displays in a Project

Exporting and Publishing Individual GraphWorX Display Files in ProjectWorX

In ProjectWorX, you can export and/or publish individual GraphWorX display files using the Web Publishing Wizard.

To export/publish a single display in a project:

Right-click on a GraphWorX display and select Publish HTML, as shown in the figure below.



Launching the Web Publishing Wizard

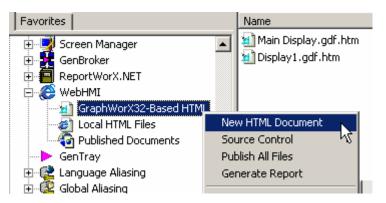
- 1. This launches the Web Publishing Wizard, as shown in the figure below. In this case, the **Based** on **Source File** field in the Web Publishing Wizard dialog is read-only and contains the name of the selected GraphWorX display. The browse (...) button is also disabled.
- 2. In the **Publish Web Page** field of the Web Publishing Wizard, specify the name of the HTML file that will be created. The .gdf file name is filled in by default, but you can give the HTML file a different name.

ProjectWorX

Publish Web Page	
	_
(Display Name).htm	
Based on Source File	
(All GraphWorX displays in Project)	
- Publishing Options	
✓ Publish to Web Server	
http://localhost/webhmi	1
Export Local Copy	
C:\Program Files\Smar\ProcessView\Projects\Project 2\Appli 💌 🔜	
Publishing Customization	_
Publishing customization allows you to change Web	
Publishing Settings. Advanced	
r ubilshing ockings. Advanced	

Publishing a GraphWorX Display in a Project

Note
You can also right-click on the Applications/WebHMI/GraphWorX-Based HTML tree and select
New HTML Document, as shown in the figure below, to export/publish a GraphWorX display. This
launches the Web Publishing Wizard. In this case, you need to specify a GraphWorX display file in
the Based on Source File field by browsing for the file or by typing in the file name. You also need
to specify the name of the new HTML file in the Publish Web Page field.



Creating a New HTML File in a Project

Exporting a Display File Locally in ProjectWorX

To export a GraphWorX display to a directory on the local drive:

1. Right-click on the Applications/WebHMI/GraphWorX-Based HTML tree and select New HTML Document, as shown in the figure below.

Favorites	Name
🗄 🛃 Screen Manager	🔺 🕍 Main Display.gdf.htm
🕀 🚼 GenBroker	Display1.gdf.htm
🕀 🗐 ReportWorX.NET	
🚊 🜔 WebHMI	
- 🥑 Local HTML Files	New HTML Document
Published Documents	Source Control りちょう
GenTray	Publish All Files
🗄 🞼 Language Aliasing	Generate Report
🗄 📲 Global Aliasing	I

Launching the Web Publishing Wizard

2. This launches the Web Publishing Wizard, as shown in the figure below. In the **Based on Source File** field of the Web Publishing Wizard, you must specify the name of the GraphWorX display (.gdf) file to be exported, as shown in the figure below. To choose a display, click the ... button to the right to browse for a file. Select a file and then click **Open.** The directory path and the file name are shown in the text field.

🖏 Smar Web Publishing Wizard 🛛 🗶
Publish Web Page
(Display Name).htm
Based on Source File
(All GraphWorX displays in Project)
Publishing Options
Publish to Web Server
http://localhost/webhmi
Export Local Copy
C:\Program Files\Smar\ProcessView\Projects\Project 2\Appli 🗾 🛄
Publishing Customization
Publishing customization allows you to change Web
Publishing Settings. Advanced
OK Cancel <u>H</u> elp

Exporting a Display File Locally in ProjectWorX

- **3.** In the **Publish Web Page** field of the Web Publishing Wizard, specify the name of the HTML file that will be created.
- 4. In the Publishing Options field, the Export Local Copy check box is checked by default. Specify the local directory path name to which you want to export the HTML file. You can select a recently used path from the drop-down list, or click the ... button to browse for a destination directory. Select the directory and click OK. The local directory pathway you selected appears in the Export Local Copy field of the Web Publishing Wizard.

Note
By default, ProjectWorX saves the HTML file to the (local) Applications/WebHMI/GraphWorX-
Based HTML tree. From there, the HTML file can be edited and published again in the future.

5. Click the OK button to generate the HTML file. The new HTML file is saved to the local directory pathway specified in the Export Local Copy field.

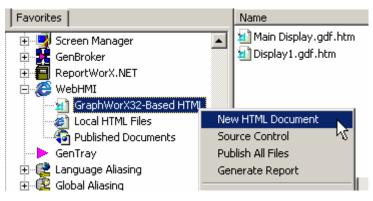
Note

Both the **Publish to Web Server** and **Export Local Copy** actions can be performed at the same time.

Publishing a Display File to a Web Server in ProjectWorX

To publish the HTML file to a directory on a Web server (i.e. over the Internet or an intranet):

1. Right-click on the Applications/WebHMI/GraphWorX-Based HTML tree and select New HTML Document, as shown in the figure below.



Launching the Web Publishing Wizard

2. This launches the Web Publishing Wizard, as shown in the figure below. In the **Based on Source File** field of the Web Publishing Wizard, you must specify the name of the GraphWorX display (.gdf) file to be published, as shown in the figure below. To choose a display, click the ... button to the right to browse for a file. Select a file and then click **Open.** The directory path and the file name are shown in the text field.

🖏 Smar Web Publishing Wizard 🛛 🛛 💌
Publish Web Page (Display Name).htm
Based on Source File
(All GraphWorX displays in Project)
Publishing Options
Publish to Web Server http://localhost/webhmi/Samples
Export Local Copy C:\Program Files\Smar\ProcessView\Projects\Project 2\Appli
Publishing Customization
Publishing customization allows you to change Web Publishing Settings.
OK Cancel <u>H</u> elp

Publishing a Display File to a Web Server

- 3. In the **Publish Web Page** field of the Web Publishing Wizard, specify the name of the HTML file that will be created.
- 4. In the Publishing Options field, check the Publish to Web Server check box and type in the URL address of your Web server with the complete directory indicating where you want to publish the HTML file, as shown in the figure above. In the sample Web server URL address shown above ("http://www.myserver.com/WebHMI/Samples"), the various components are:
- http://www.myserver.com: IP address (server name) of the WebHMI Server
- WebHMI: Name of the WebHMI server root directory
- Samples: Name of the directory on the server to which the HTML file will be saved
- 5. Click the OK button to generate the HTML file. The new HTML file is uploaded to the Web server and then saved to the URL address path specified in the **Publish to Web Server** field.

Note										
		ProjectWorX ebHMI/GraphWo gain in the future.	rX-Base			HTML om there,			the e can b	(local) e edited
Note										

Both the **Publish to Web Server** and **Export Local Copy** actions can be performed at the same time.

Publishing Customization Options

The Web Publishing Wizard contains some customization options for exporting/publishing HTML files. Clicking the **Advanced** button on the Web Publishing Wizard dialog opens the **Web Publishing Properties** dialog box, which contains the following tabs:

- Server Switching Support
- Screen Resolution Settings
- Publishing Options

Server Switching Support

The **Server Switching Support** tab of the **Web Publishing Properties** dialog box, shown in the figure below, allows you to enable or disable GenBroker support for the exported/published HTML file. Here you can specify which GenBroker configuration file (.gbc or .gbx) will be activated. The GenBroker configuration file establishes the settings for OPC data communications between the clients and the Web server.

W	/EB Publishing Wizard Properties	x
	Server Switching Support Screen Resolution Publishing Options	_ 1
	Adds GenBroker Configurator Support to exported HTML. Communication can be established to one server at a time only.	
	◯ <u>N</u> one	
	As Configured in WebHMI Settings	
	○ <u>U</u> ser Defined	
	Ok Cancel Apply Help	

Server Switching Support Settings

There are three available options for GenBroker support:

- **None:** GenBroker support is not active.
- As Configured in WebHMI Settings: This setting uses the default URL address of the GenBroker configuration (.gbc) file as specified in the WebHMI installation.
- User Defined: When this option is selected, the GenBroker Configuration File URL field becomes available, allowing you to specify the URL address of the GenBroker configuration(.gbc) file.

Clients can receive data from different WebHMI servers, but communication can be established only to one server at a time. The server to which a client connects depends on the type of information that the client requests. If Server A, for example, does not contain the components necessary to answer the client's request, the request will be forwarded to Server B, or Server C, and so on.

Note

For information about configuring GenBroker settings, please see the GenBroker Configurator Help documentation.

Screen Resolution Settings

The **Screen Resolution** tab of the **Web Publishing Properties** dialog box, shown in the figure below, determines the screen resolution and size of the GraphWorX Viewer ActiveX control, which is referenced in the generated HTML file and then downloaded to a client PC when the HTML file is viewed in the client's Web browser. You can specify the screen size in the **Width** and **Height** fields in terms of pixels (px) or percentage (%). Click the **Resolutions** button to select from a pop-up menu of standard screen resolutions, as shown in the figure below.

WEB Publishing Wizard Properties	×
Server Switching Support Screen Resolution Publishing Options	_
GWXViewer ActiveX Size in HTML: Width: 100 Height: 100 T C px © % C px © %	
Ok Cancel Apply Help	

Screen Resolution Settings

Publishing Options

The **Publishing Options** tab of the **Web Publishing Properties** dialog box, shown in the figure below, enhances the publishing process. By default, the Web Publishing Wizard provides support for related files detection (for more details, see the **Multiple Display Support** section). The multiple display detection could be a rather lengthy process. You can speed up the process by disabling the **Enable Multiple Display Support** option. This is especially useful, if you have already published your project files to the Web server, and now you want to update display you have changed.

The multiple display detection mechanism ensures that the Web page will be published properly for the source file. Disabling the **Multiple Display Support** may cause publishing of an incomplete web page, which may result in unexpected behavior. Therefore, it is suggested to disallow publishing of the Web page. You can do so by enabling the **Publish Display File Only** option.

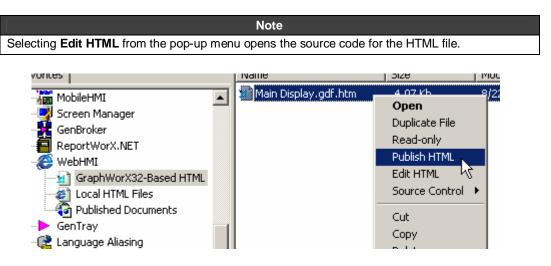
WEB Publishing Wizard Properties					
Server Switching Support Screen Resolution Publishing Options					
These options are applied only when user publishes to remote web server. Proceed with caution!					
Enable Multiple Display Support					
All displays linked to this display will be uploaded to the server. Disabling this option speeds up the process but may result in unexpected behaviour. Please, consult Help for more information.					
Publish Display File Only					
The HTML file for selected display will not be published					
Ok Cancel Apply Help					

Publishing Options

Publishing Files at a Later Time

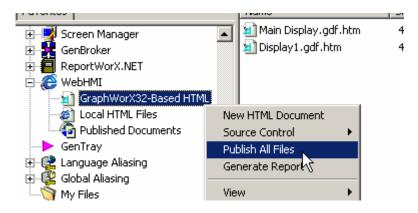
The Web Publishing Wizard, ProjectWorX saves the generated HTML file to the (local) **Applications/WebHMI/GraphWorX-Based HTML** tree. The advantage of storing a local copy of an exported HTML file is that it can be edited, packed, moved, unpacked, and then published again at any time. This saves you the burden of having to re-export the same GraphWorX display file to a new HTML file. You can use this option in any of the following ways:

- Right-click on any HTML file in the Applications/WebHMI/GraphWorX-Based HTML tree and select Publish HTML from the pop-up menu, as shown in the figure below.
- Right-click on any HTML file in the Applications/WebHMI/Local HTML Files tree and select Publish HTML from the pop-up menu.



Publishing a Locally Stored HTML File

- Right-click on the **GraphWorX-Based HTML Files** tree and select **Publish All Files** from the pop-up menu, as shown in the figure below.
- Right-click on the Local HTML Files tree and select Publish All Files from the pop-up menu.
- Right-click on the **WebHMI** tree and select **Publish All Files** from the pop-up menu. This publishes all HTML files in the WebHMI tree.



Publishing All Locally Stored HTML Files

All of these actions open the **Publish HTML File to Web Site** dialog box, as shown in the figure below. The **Qualified WWW Folder** field in this dialog is identical to the **Publish Location** field in the Web Publishing Wizard dialog and is stored in the same place in the registry if the action is successful. This specifies the location of the Web server to which the HTML file will be published. If the export/publish action is successful, a "publish" action on an HTML file in the **Local HTML Files** tree simply uploads the HTML file to the Web server. A "publish" action on an HTML file in the **GraphWorX-Based HTML Files** tree uploads both the HTML file and its attached GraphWorX display (.gdf) file to the Web server.

Publish HTML Fi	le to Web Site		×		
Qualified WWA	V Folder				
http://www.myserver.com/webhmi					
	OK	Cancel	<u>H</u> elp		

Specifying a Web Server Location for HTML Publishing

Web Publishing Log

When exporting/publishing only one file from a GraphWorX display to HTML, you are alerted if anything goes wrong in the process. If, however, multiple files are being exported/published simultaneously, a log is generated so the operation will not be halted with each file that cannot be exported/published. After a batch publishing operation from the **GraphWorX-Based HTML Files** tree, a log file appears showing the success or failure of each attempt to publish the files. If this log file is needed at a later time, it can be found in the project root, as shown in the figure below.

Tree Favorites	Name	Size
Projects Projects	Name Applications ProjInfo.ini Untitled 1.sec Publishing Log	O bytes 278 bytes 6.24 Kb
⊡ 🎁 Applications 中 😿 GraphWor:		

Location of Web Publishing Log File