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Introduction to GenTray

The **GENESIS32 Tool Tray** (GenTray) provides convenient a way to either manually or automatically start and/or stop various GENESIS32 applications, including the following:

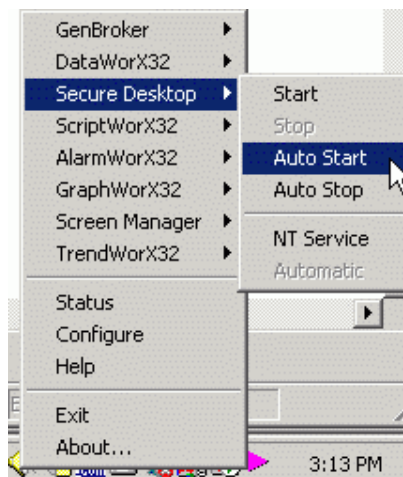
- GraphWorX32
- TrendWorX32
- AlarmWorX32
- GenBroker
- Secure Desktop
- DataWorX32
- Screen Manager
- ScriptWorX32

GenTray is a simple user interface located in your Windows taskbar, making it easy to access at any time. The GenTray executable file (**Gentray.exe**) should be placed in your computer's **Startup** group so that it is available every time your computer is started.

Starting GenTray

To launch GenTray:

1. From the Windows **Start** menu, select **Programs > ICONICS Tools GENESIS32 Tray**.
2. GenTray is launched, and a purple triangle icon appears in the in the lower right corner of the Windows task bar, as shown in the figure below. Click on the triangle to open the GenTray user interface.



GenTray User Interface

The user interface consists of a pop-up menu that lists various applications in GENESIS32. Selecting one of these items shows any application items in a pop-up menu. For each item, there is a list of commands to **Start** or **Stop** and **Auto Start** or **Auto Stop** the application. Some applications have the option of running as Windows NT service.

Other commands on the menu include the following:

- **Status:** Displays a list of GENESIS32 applications that are currently in runtime mode.
- **Configure:** Launches the **GenTray Application Configuration** dialog box.
- **Help:** Launches the online Help documentation.
- **Exit:** Closes the GenTray application.
- **About:** 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.

Starting and Stopping Applications

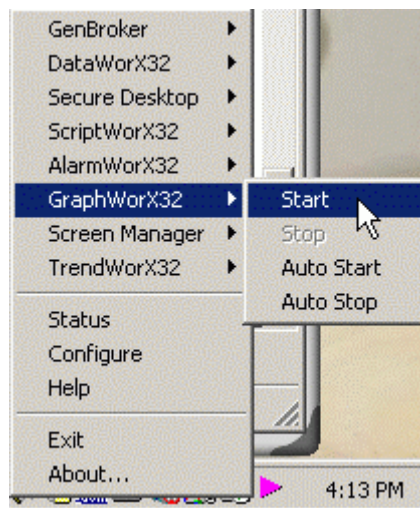
GenTray provides a way to either manually or automatically start and/or stop applications within GENESIS32. In the GenTray user interface, you can specify which applications to start and stop. You can also set up applications to auto start upon Windows startup, setting their timing and launching position parameters.

Note: GenTray does not detect applications that are open but are not in runtime mode. An application can be detected as running only if the application is launched through GenTray.

Starting Applications in GenTray

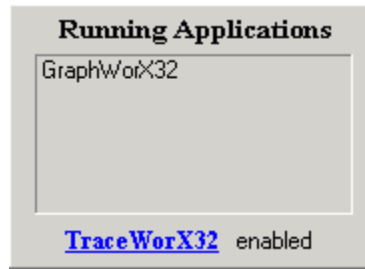
To launch an application from the GenTray user interface:

1. Select the application and choose **Start** from the pop-up menu, as shown in the figure below.



Starting an Application in GenTray

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

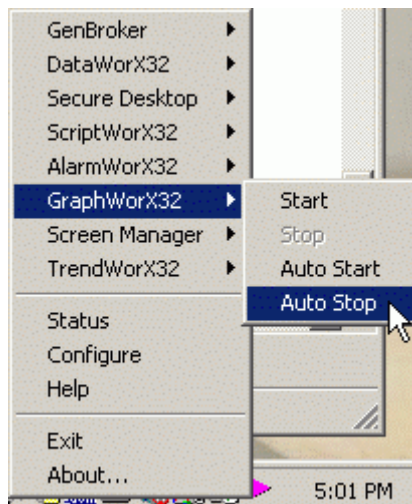


Application Running in GenTray

Stopping Applications in GenTray

To shut down a running application from GenTray:

1. Select the application and choose **Stop** from the pop-up menu, as shown in the figure below.



Stopping an Application in GenTray

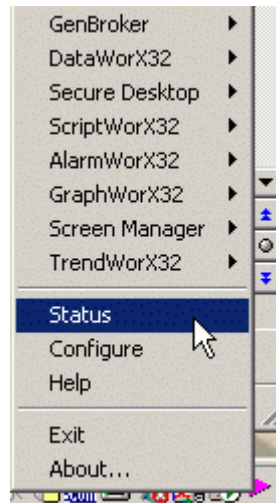
2. The application is shut down, and its status changes to **Not Running**.

Viewing Application Status

When you start or auto start an application from GenTray, the application opens in runtime mode. An application can be detected as running only if the application is launched through GenTray. GenTray does not detect applications that are open but are not in runtime mode.

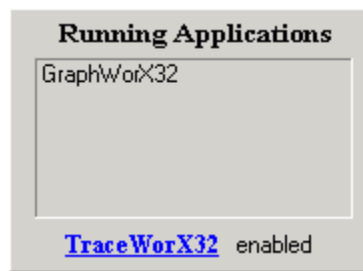
To view the status of applications in GenTray:

1. Select **Status** on the GenTray user interface, as shown in the figure below.



Viewing Application Status

2. The **Status** box opens, as shown in the figure below, listing any open applications that are currently in runtime. If no applications are currently running, the status box says "no applications running."

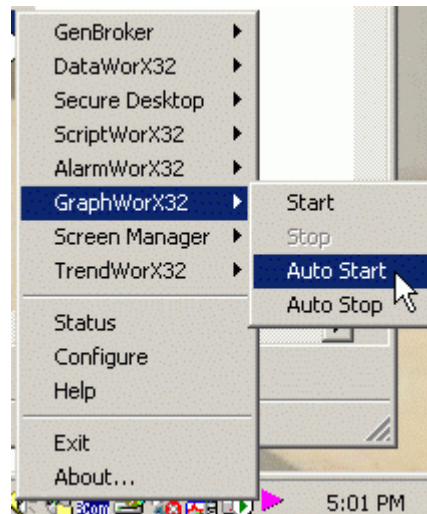


Application Running in GenTray

Auto Start and Auto Stop

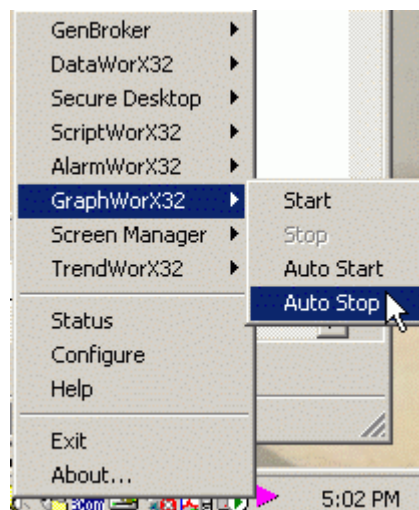
The **Auto Start** and **Auto Stop** options in GenTray enable you to automatically open and shut down GENESIS32 system applications in an orderly fashion.

When **Auto Start** is selected for an application in the GenTray user interface, as shown in the figure below, the application is automatically launched upon GenTray startup.



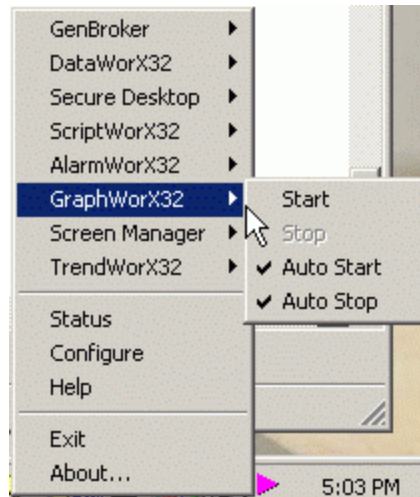
Auto Starting an Application in GenTray

When **Auto Stop** is selected for an application in the GenTray user interface, as shown in the figure below, the application is automatically closed upon GenTray shutdown.



Auto Stopping an Application in GenTray

Once **Auto Start** or **Auto Stop** has been enabled for an application, a check mark appears next to each menu item, as shown in the figure below.

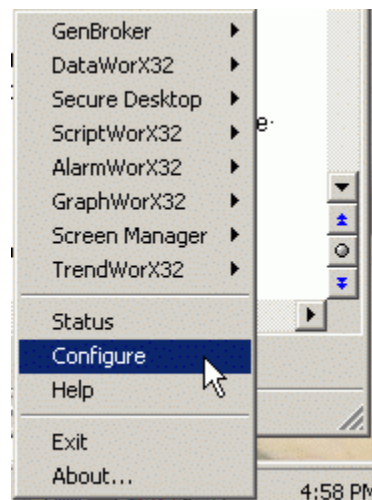


Auto Start/Stop Enabled for Application

Note: For more information about auto start/stop settings, please see "Configuring Auto Start and Auto Stop Parameters."

Configuring Auto Start and Auto Stop Parameters

When auto start or auto stop is enabled for multiple applications, GenTray creates a management list for applications that are auto-started or auto-stopped. To configure the auto start/auto stop parameters, select **Configure** on the GenTray user interface, as shown in the figure below.



Viewing the GenTray Configuration Settings

This opens the **GENESIS32 Tool Tray Application Configuration** dialog box, as shown in the figure below. Any items already selected for Auto Start or Auto Stop will already appear in the **Auto Start List** or the **Auto Stop List**, respectively. To add an application to these lists, select the application from the drop-down list at the top-left corner of the dialog box and check the **Include in Auto Start List** check box under **Auto Start Parameters** and/or the **Include in Auto Stop List** check box under **Auto Stop Parameters**.

Note: When an application is run as an automatic NT service, the auto start and auto stop parameters for that application are disabled.

The screenshot shows the 'GENESIS32 Tool Tray' configuration window. At the top, 'GraphWorX32' is selected in a dropdown menu, with a 'Custom' button next to it. Below this is a text field for 'Optional Startup Command' with a browse button (...). The 'Service Parameters' section contains two checkboxes: 'Run as Service' (unchecked) and 'Automatic Service' (unchecked). The 'AutoStart Parameters' section has a checked 'Include in AutoStart List' checkbox, with 'Relative Position' set to 1 and 'Relative Delay (sec.)' set to 2. The 'AutoStop Parameters' section has a checked 'Include in AutoStop List' checkbox, with 'Relative Position' set to 0 and 'Relative Delay (sec.)' set to 0. Below these are two lists: 'AutoStart List' and 'AutoStop List'. The 'AutoStart List' table shows GraphWorX32 at position 2, AlarmWorX32 Server at 0, and DataWorX32 at 0. The 'AutoStop List' table shows GraphWorX32 at position 0, Secure Desktop at 0, and DataWorX32 at 0. A note states: 'Note : Applications configured for AutoStart / AutoStop will be started / stopped when GENESIS32 Tool Tray is started / stopped.' The 'GENESIS32 Tool Tray Startup Parameters' section has 'AutoStart GENESIS32 Tool Tray' unchecked and 'Startup Delay (sec.)' set to 0, and 'Show splash during startup' checked. At the bottom are buttons for 'Import a configuration', 'Export this configuration', 'OK', and 'Cancel'.

Application	Delay
GraphWorX32	2
AlarmWorX32 Server	0
DataWorX32	0

Application	Delay
GraphWorX32	0
Secure Desktop	0
DataWorX32	0

Configuring Auto Start and Auto Stop Parameters

The order in which GenTray will auto start or auto-stop applications is determined by their relative start and stop positions specified in the parameters. The **Relative Position** settings begin with 0. Thus, an application with a relative start position of "0" will be the first application to auto start. An application with a relative start position of "1" will be the second application to auto start, and so on. Under the **Auto Start List** and **Auto Stop List**, use the **Up/Down** arrow buttons to change the sequence in which GenTray will launch the applications.

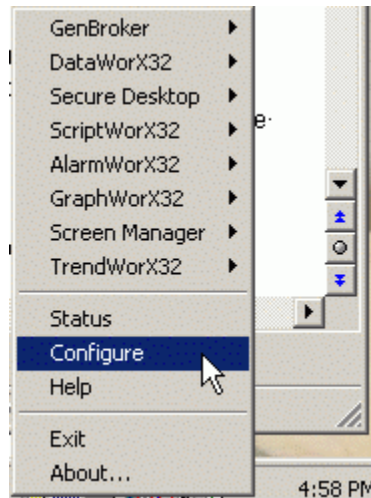
The timing by which GenTray will auto start or auto-stop applications is determined by the **Relative Delay** settings. You can specify a delay time (in seconds) for each application.

For example, the GenTray configuration settings for GraphWorX32 are shown in the figure above. In the **Auto Start List**, GraphWorX32 is listed second, meaning that it will be the second application to be auto started when GenTray is launched. The **Relative Position** for GraphWorX32 is "1." The **Relative Delay** for GraphWorX32 is 2 seconds, meaning that GraphWorX32 will be auto started 2 seconds after GenTray is launched, and 1 second after the Alarm Server (AWXSvr32, which is first in the Auto Start List and has a relative delay of 1 second) will be auto started.

Note: When the Auto Start GenTray check box is checked under the **GenTray Startup Parameters**, the GenTray application (GenTray.exe) will automatically launch upon system startup. You can also specify a **Startup Delay** (in seconds) for GenTray startup.

Configuring Application Settings

To change the configuration settings for GenTray, select **Configure** on the GenTray user interface, as shown in the figure below.



Viewing the GenTray Configuration Settings

This opens the **GenTray Application Configuration** dialog box, as shown in the figure below. To configure settings for a specific application, select the application from the drop-down list at the top-left corner of the dialog box (GraphWorX32 is selected in the figure below).

In the **Optional Startup Command** field, you can specify a startup file for the selected application. For example, you may want to start GraphWorX32 with a specific display (.gdf) file in runtime mode. To select a startup file, click the ... button to the right and browse for the file. Select a file and then click **OK**. The directory path and file name appear in the **Optional Startup Command** field, as shown in the figure below.

Click the **Custom** button to customize the application items drop-down list. For more information, please see "Customizing the Application Items List."

GraphWorX32 Custom

Optional Startup Command :

Service Parameters

☐ Run as Service ☐ Automatic Service

AutoStart Parameters

☒ Include in AutoStart List

Relative Position :

Relative Delay (sec.) :

AutoStop Parameters

☒ Include in AutoStop List

Relative Position :

Relative Delay (sec.) :

AutoStart List :

Application	Delay
GraphWorX32	2
AlarmWorX32 Server	0
DataWorX32	0

AutoStop List :

Application	Delay
GraphWorX32	0
Secure Desktop	0
DataWorX32	0

Note : Applications configured for AutoStart / AutoStop will be started / stopped when GENESIS32 Tool Tray is started / stopped.

GENESIS32 Tool Tray Startup Parameters

☐ AutoStart GENESIS32 Tool Tray Startup Delay (sec.) :

☒ Show splash during startup

Import a configuration Export this configuration OK Cancel

Configuring Application Settings

In the **Application Configuration** dialog box, you can also set the NT service parameters for those applications that can run as an NT service by checking the **Run As Service** check box. Please see the "Running Applications as NT Services" section for more information.

Any items already selected for Auto Start or Auto Stop will already appear in the **Auto Start List** or the **Auto Stop List**, respectively. To add an application to these lists, select the application from the drop-down list at the top-left corner of the dialog box and check the **Include in Auto Start List** check box under **Auto Start Parameters** and/or the **Include in Auto Stop List** check box under **Auto Stop Parameters**. For more information, please see "Configuring Auto Start and Auto Stop Parameters."

Note: When an application is run as an automatic NT service, the auto start and auto stop parameters for that application are disabled.

If you wish to save the current GenTray configuration as a separate file, click the **Export This Configuration** button on the **Application Configuration** dialog box. For more information, please see "Importing and Exporting Configurations."

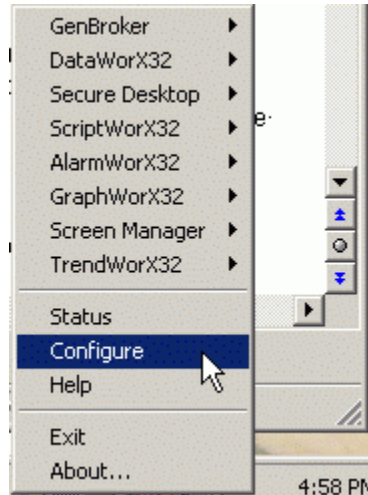
Click **OK** on the **Application Configuration** dialog box to save the active configuration file in the Windows registry. Each time GenTray is opened, the most recently saved configuration will be used.

IMPORTANT NOTE: If you want the configuration to be updated in the registry, you *must* click **OK**. If you do not click **OK**, GenTray will revert to the previously saved configuration the next time it is opened.

Customizing the Application Items List

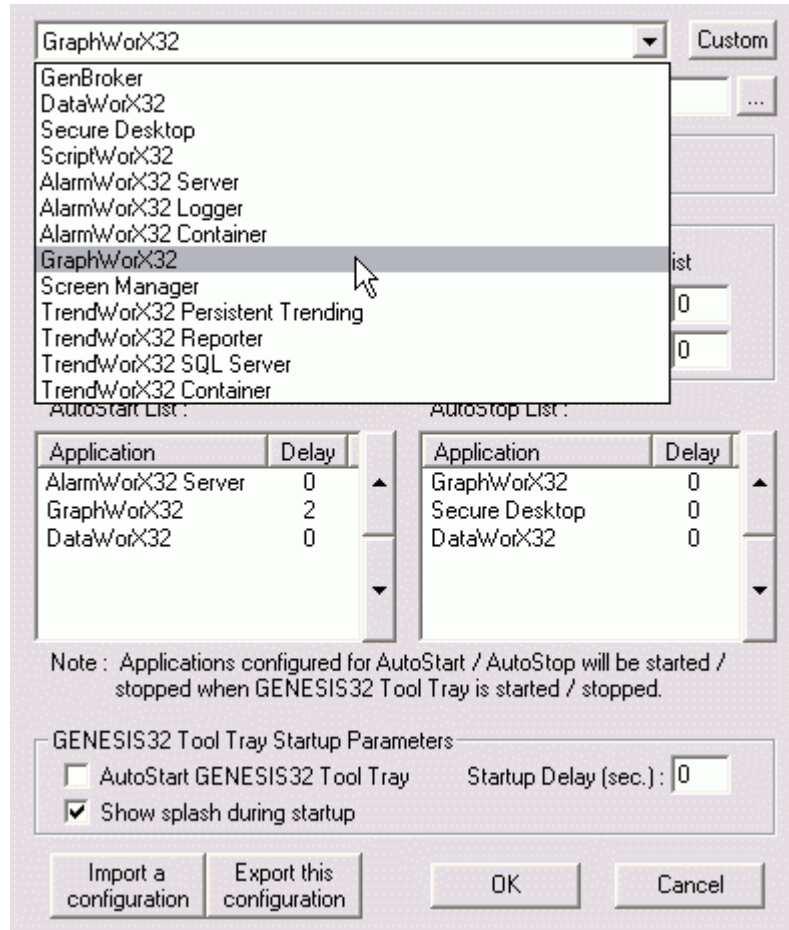
The **GenTray Application Configuration** dialog box allows you to choose from a list of applications to configure. You can customize this applications list by doing the following:

1. Select **Configure** on the GenTray user interface, as shown in the figure below.



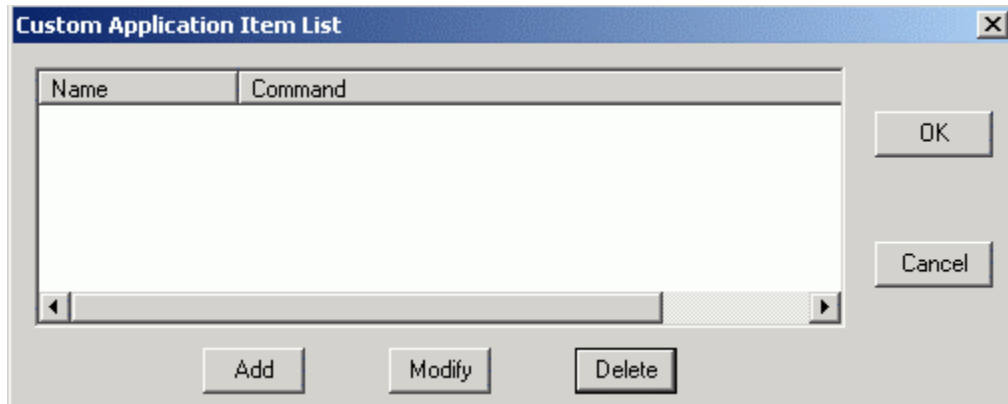
Viewing the GenTray Configuration Settings

2. This opens the **GenTray Application Configuration** dialog box. The application items drop-down list at the top-left corner of the dialog box, shown in the figure below, is used to select which application to configure. To modify this list, click the **Custom** button.



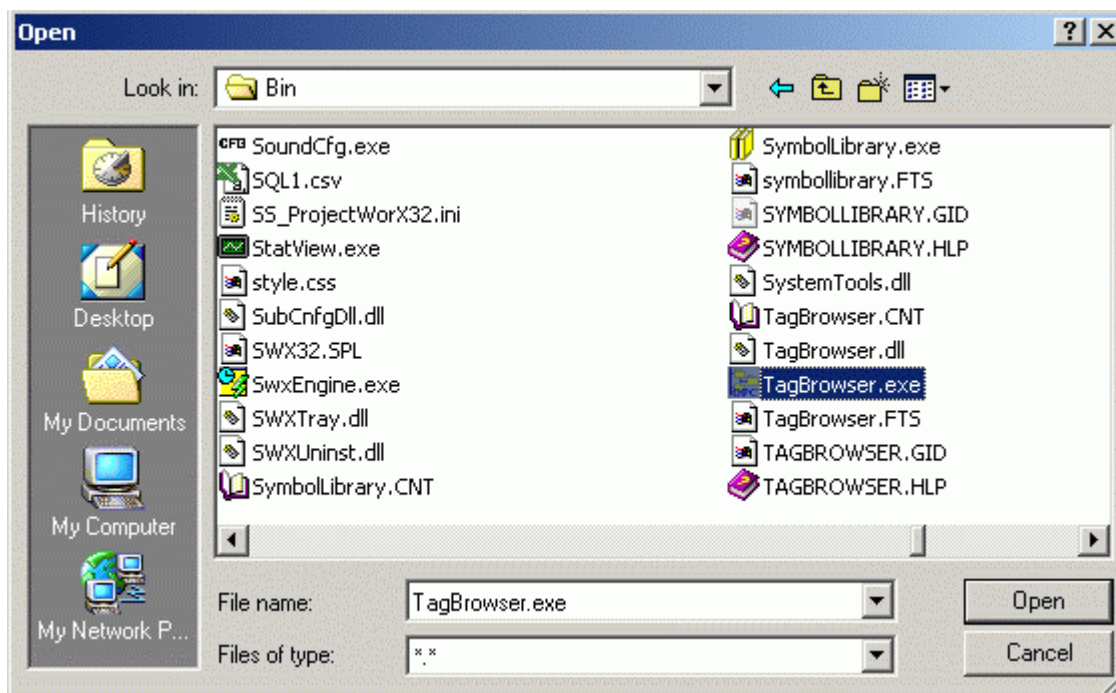
Customizing the Application Items List

3. This opens the **Custom Application Item List** dialog box, as shown in the figure below. To add an item to the list, click the **Add** button.



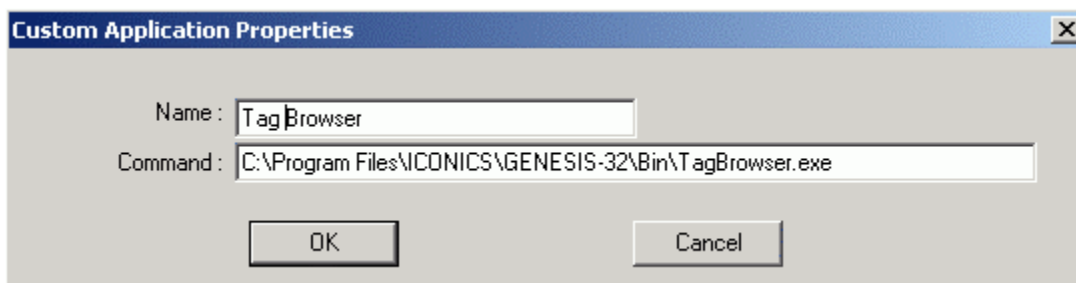
Custom Application Items List

4. Browse for a file to add to the list, select the file, and then click **Open**, as shown in the figure below. In this example, the OPC Tag Browser is selected.



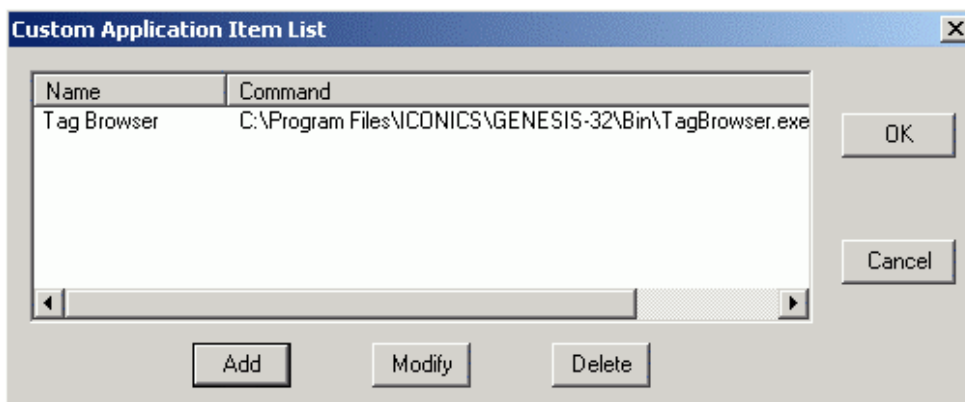
Choosing a Custom Application To Add

5. The **Custom Application Properties** dialog box appears, as shown in the figure below, displaying the selected file and directory path in the **Command** field. In the **Name** field, type the name for the custom application that will be displayed in the GenTray user interface. Click the **OK** button.



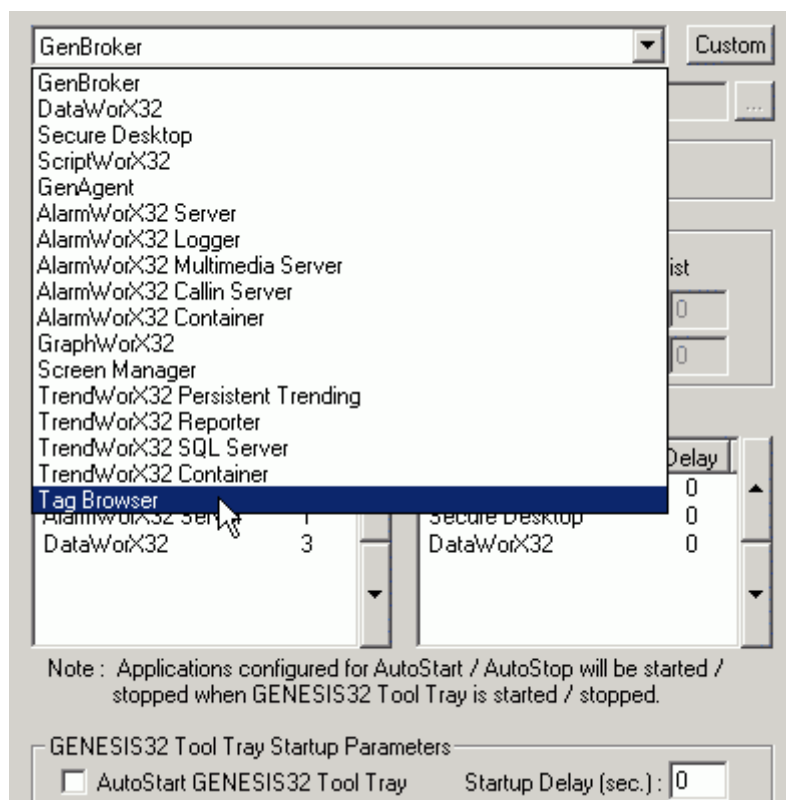
Custom Application Properties

6. The new application is added to the list, as shown in the figure below. At this point, you can also **Modify** or **Delete** the item, or you can add more items to the list. Click **OK**.



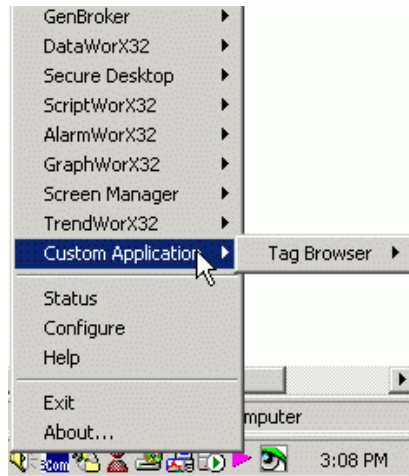
Item Added to Custom Application Items List

7. The **GenTray Application Configuration** dialog box reappears. The reference ID of your newly added application item now appears in the drop-down list at the top-left corner of the dialog box, as shown in the figure below. You can select the new item from the list and configure its settings. Click **OK**.



New Application Item Added to Drop-Down List

8. The next time you open the GenTray user interface, a new **Custom Application** option appears on the menu, as shown in the figure below. Selecting **Custom Application** opens a pop-up menu option customized applications, allowing you to start, stop, auto start, or auto stop your application.



Custom Application Menu in GenTray Interface

Importing and Exporting Configurations

If you wish to save the current GenTray configuration as a separate file, click **Export This Configuration** on the **Application Configuration** dialog box, as shown in the figure below. This opens the **Save As** dialog box, which enables you to save a GenTray configuration (.gtr) file. This way you can archive the configuration for later use on the same PC, for use on a different PC, or for different systems and users, for example.

Once you have archived a configuration as a .gtr file, you can recover the configuration by clicking **Import a Configuration**. This opens a dialog box that allows you to browse for the .gtr file.

GraphWorX32 Custom

Optional Startup Command :

Service Parameters

☐ Run as Service ☐ Automatic Service

AutoStart Parameters

☒ Include in AutoStart List

Relative Position :

Relative Delay (sec.) :

AutoStop Parameters

☒ Include in AutoStop List

Relative Position :

Relative Delay (sec.) :

AutoStart List :

Application	Delay
GraphWorX32	2
AlarmWorX32 Server	0
DataWorX32	0

AutoStop List :

Application	Delay
GraphWorX32	0
Secure Desktop	0
DataWorX32	0

Note : Applications configured for AutoStart / AutoStop will be started / stopped when GENESIS32 Tool Tray is started / stopped.

GENESIS32 Tool Tray Startup Parameters

☐ AutoStart GENESIS32 Tool Tray Startup Delay (sec.) :

☒ Show splash during startup

Import a configuration Export this configuration OK Cancel

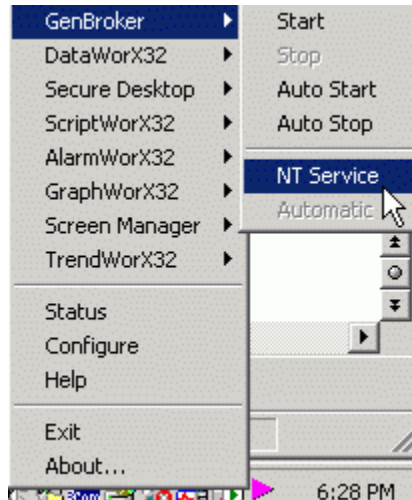
Configuring Application Settings

Running Applications as NT Services

GenTray also enables you register and run some GENESIS32 applications as a Windows NT service.

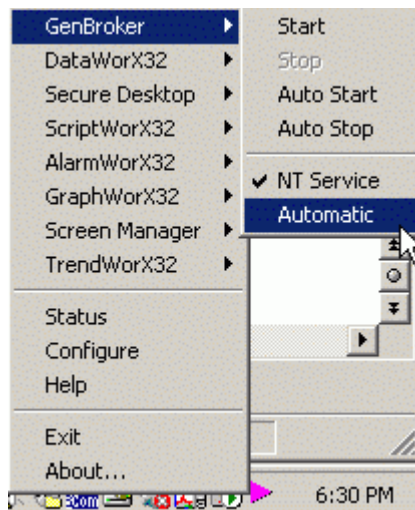
To convert an application that can be run as a service into an NT service:

1. Select the application and choose **NT Service** from the pop-up menu, as shown in the figure below.



Registering an NT Service

2. Once an application is converted to an NT service, it can optionally be configured to be an **Automatic** service so that it will automatically start every time the PC is rebooted, as shown in the figure below.



Registering an Automatic NT Service

You can also configure the NT service parameters by selecting **Configure** on the GenTray user interface. This opens the **GenTray Application Configuration** dialog box, as shown in the figure below. For those applications that can be run as an NT service, select the application from the drop-down list at the top-left corner of the dialog box and check the **Run As Service** check box and the optional **Automatic Service** check box.

Note: If the selected application cannot run as an NT service, the NT service options will be grayed out. When an application is run as an automatic NT service, the auto start and auto stop options for that application are disabled.

The screenshot shows the 'GenBroker' configuration window. At the top, there is a dropdown menu set to 'GenBroker' and a 'Custom' button. Below this is a text field for 'Optional Startup Command' with a browse button (...). The 'Service Parameters' section contains two checked options: 'Run as Service' and 'Automatic Service'. The 'AutoStart Parameters' section on the left includes an unchecked 'Include in AutoStart List' checkbox, and 'Relative Position' and 'Relative Delay (sec.)' fields, both set to 0. The 'AutoStop Parameters' section on the right includes an unchecked 'Include in AutoStop List' checkbox, and 'Relative Position' and 'Relative Delay (sec.)' fields, both set to 0. Below these are two empty list boxes labeled 'AutoStart List' and 'AutoStop List', each with a table header showing 'Application' and 'Delay'. A note states: 'Note : Applications configured for AutoStart / AutoStop will be started / stopped when GENESIS32 Tool Tray is started / stopped.' The 'GENESIS32 Tool Tray Startup Parameters' section at the bottom has an unchecked 'AutoStart GENESIS32 Tool Tray' checkbox with a 'Startup Delay (sec.)' field set to 0, and a checked 'Show splash during startup' checkbox. At the very bottom are buttons for 'Import a configuration', 'Export this configuration', 'OK', and 'Cancel'.

Configuring NT Service Parameters

GENESIS32 Tool Tray OLE Automation Reference

OLE Automation support was originally integrated into GenTray in Version 6.0. The **IsriptCommands** interface allows Visual Basic and other clients to start and stop individual GENESIS32 applications as well as make changes to the existing GenTray configuration.

Methods

GetRegisteredApps(AppRefIDs, AppDescriptions)

Inputs

none

Outputs

AppRefIDs is a string array of reference IDs that are used to access individual components.

AppDescriptions is a string array of descriptions that correspond to the AppRefIDs.

Description

Obtains a list of registered GenTray applications. The AppRefIDs are the identifiers to be used to retrieve other information as described below.

Startup()

Inputs

none

Outputs

none

Description

Starts all components currently configured to AutoStart.

Shutdown()

Inputs

none

Outputs

none

Description

Shuts down all components currently configured to AutoStop.

Start(AppRefID)**Inputs**

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Outputs

none

Description

Starts the specified component.

Stop(AppRefID)**Inputs**

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Outputs

none

Description

Shuts down the specified component.

NOTE: A deadlock will occur if a script is used to run the GenTray **Stop(AppRefID as String)** method because the script will attempt to stop itself (e.g. if GraphWorX32 is used to run a script that instructs GenTray to stop GraphWorX32).

GetStartTableEntry(AppRefID, Position, RelativeStartDelay)**Inputs**

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Outputs

Position: Long value that specifies the position in the startup table.

RelativeStartDelay: Long value specifying time in seconds to wait before starting application.

Description

Gets the current start table entries as configured in GenTray.

SetStartTableEntry(AppRefID, Position, RelativeStartDelay)**Inputs**

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Position: Long value that specifies the position in the startup table.

RelativeStartDelay: Long value specifying time in seconds to wait before starting application.

Description

Sets the current start table entries in GenTray.

GetStopTableEntry (AppRefID, Position, RelativeStoptDelay)**Inputs**

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Outputs

Position: Long value that specifies the position in the startup table.

RelativeStartDelay: Long value specifying time in seconds to wait before starting application.

Description

Gets the current stop table entries as configured in GenTray.

SetStopTableEntry (AppRefID, Position, RelativeStoptDelay)**Inputs**

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Position: Long value that specifies the position in the startup table.

RelativeStartDelay: Long value specifying time in seconds to wait before starting application.

Description

Sets the current stop table entries in GenTray.

Properties

AutoStartState(AppRefID)

Inputs

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Description

Boolean value reflects the specified application's AutoStart state.

AutoStopState(AppRefID)

Inputs

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Description

Boolean value reflects the specified application's AutoStop state.

ServiceState(AppRefID)

Inputs

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Description

Boolean value reflects the specified application's Service state.

AutomaticState(AppRefID)

Inputs

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Description

Boolean value reflects the specified application's Automatic state when configured as a Service.

RunsAsService(AppRefID)

Inputs

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Description

Boolean value reflects whether the specified application can run as a service.

IsRunning(AppRefID)**Inputs**

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Description

Boolean value reflects the specified application's current runtime status.

SupportsCommand(AppRefID)**Inputs**

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Description

Boolean value reflects whether the specified application supports a command line string.

StartCommand (AppRefID)**Inputs**

AppRefID: String specifying application identifier obtained using GetRegisteredApps().

Description

String value reflects the specified application's command line string.