

Proficy CIMPLICITY 11.1 Runtime



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Chapter 1. CIMPLICITY Runtime Login

About CIMPLICITY Runtime Login

CIMPLICITY provides a runtime login requirement as one of its runtime security features.

When the project is running and the first time a user attempts to access any of the CIMPLICITY runtime applications, a CIMPLICITY® Login dialog box displays asking for the User ID and password.

After the user successfully enters a User ID and password and gains access to the runtime, feature, the level of available runtime privileges is determined by the user's role.

- Login requirements and privileges configuration.
- Runtime login procedure.
- Use the CIMPLICITY® Login dialog box.

Note: The runtime login is a counterpart to configuration security, which requires a user to login to do configuration.

Login Requirements and Privileges Configuration

By assigning privileges to roles and roles to users, you, the system administrator, can allocate privileges for CIMPLICITY runtime applications.

You can enter the required User ID and password when you configure users. During runtime a user will have to enter the correct User ID and password in the CIMPLICITY® Login dialog box in order during the first time attempt to enable a runtime application.

Review additional login configuration information for:

- CimView.
- Alarm Viewer (stand alone).
- Alarm Viewer (OCX Control).

• Clients.

Runtime Login Procedure

A user will be asked to login to any of the following applications when it is the first time that an application is opened during a runtime session. Once the user is logged into that session access is available to all of the runtime features for which the user role has privileges.

Runtime Application	CIMPLICITY® Login Dialog Box Displays when a user:
CimView	Tries to open a CimView screen that contains points.
Alarm Viewer (stand alone)	Clicks Login! on the Alarm Viewer menu bar.
Alarm Viewer (OCX Control)	Tries to open an Alarm Viewer CimView screen.
Alarm Sound Manager	Tries to add a project.
Point Control Panel	Tries to add points.
Show users	Tries to open a project.
Process Control	Tries to connect to a project.
PRT_UI	Tries to open the window.
RCOUI	Tries to open the window.

Note: Login for CIMPLICITY remote access, such as Terminal Services, depends on the system administrator's configuration.

CIMPLICITY® Login Dialog Box

- 1. Enter your User ID.
- 2. Enter your user Password.



You can now access the CIMPLICITY runtime features for as long as you are working in (and logged into) the current runtime session.

When you walk away from your computer you can easily log out of CIMPLICITY if you need to protect your runtime usage privileges.

CAUTION: If you check Save User ID + Password you do not have to log into any CIMPLICITY runtime features as long as your user ID is logged into Windows. However, use this option very carefully, particularly if you have more privileges than other users who may have access to your computer while you are logged into the Windows environment.

Chapter 2. Login Panel

About the Log in Panel

The Log in Panel is an interactive process that lets you monitor the state of remote or local projects you are logged into or attempting to log into on your computer. The Login Panel shows the status of projects for which there is an active connection. An active connection is made by an application on your computer that is collecting point or alarm data.

You can use this process to:

- Log out of a CIMPLICITY project.
- Override the current log in.
- Change your CIMPLICITY user password.
- Manage your saved log ins.

These actions do not require that you exit from any applications that are currently running. For example, if you are a supervisor, you can override the log in and privileges of an operator, log out, and return the system back to the operator's logged in state.

When you log out of a project, data collection and background processing continues. However, any open CIMPLICITY screens will no longer show point status.

i **Tip:** CimLogin and CimLogout Basic Control Engine API's are available for use in CimView, e.g. to have a logout button on the screen.

Steps for Using the Login Panel

Login Panel Usage Steps

Following are steps to monitor log ins.

<u>Step 1</u> (page <u>11)</u>	Start the Login Panel.
<u>Step 2</u> <u>(page</u> <u>13)</u>	Administer the Login Panel.

<u>Step 3</u> (page 16)	Log out of a project through the Login panel.
<u>Step 4</u> <u>(page</u> <u>17)</u>	Log back into a project through the Login panel.

Important: CIMPLICITY does not support Windows XP Fast user Switching.

Step 1. Open the Login Panel

- 1. Make sure at least one CIMPLICITY project is running.
- 2. Use one of the following.
 - Workbench
 - Start menu

Workbench

3. Select **Runtime>Login Panel** in the Workbench left pane.

4. Do one of the following.



A	Click Edit>Properties on the Workbench menu bar.		
в	Click the Properties button on the Workbench toolbar.		
С	In the Workbench left pane:		
	Either	Or	
	Double click Login Panel.	a. Right-click Login Panel . b. Select Properties on the Popup menu.	
D	In the Workbench right pan	9:	

	Either	Or
	Double click Login Panel.	a. Right-click Login Panel . b. Select Properties on the Popup menu.
E	Press Alt+Enter on the keyl	board.

Start menu

- 5. Right-click Login Panel.
- 6. Select Properties on the Popup menu.
- 7. Right-click Login Panel.
- 8. Select Properties on the Popup menu.
- 9. Click Start on the Windows task bar.
- 10. Select (All) Programs>Proficy HMI SCADA CIMPLICITY version> Login Panel.

Results

- If no CIMPLICITY project is running
- 11. The Login Panel opens.
- 12. A message reports that

CIMPLICITY is not running. Program will exit.



- 13. The Login Panel closes.
 - If at least one project is running.
- 14. The Login Panel window opens.
- 15. For each project that users on this computer are logged into the Login Panel displays the:
 - Node ID for the project
 - Project ID
 - User name
 - Log in status
 - Type

🔁 Login Panel				
File Edit Project View Help				
991	8			
Node	Project	User	Status	Туре
SERVER1 SERVER2 SERVER3	LOGIN1 LOGIN2 LOGIN3	OPER1 ADMIN2 ADMIN3	Logged In Logged In Logged In	User User User
For Help, pres	is F1			

Note: If no users are logged in, the Login Panel window will be blank.

Step 2. Administer the Login Panel

Step 2. Administer the Login Panel

You can use the Login Panel to:

<u>Step 2.1</u> <u>(page</u> <u>13)</u>	Change a user password for a project.
<u>Step 2.2</u> (page 14)	Add/remove a saved CIMPLICITY log in.

Step 2.1. Change a User Password for a Project

Note: In a Server Redundancy configuration, changing the password is only supported when the primary and secondary computer are on line.

- 1. Select a user in the Login Panel that has a logged in status.
- 2. Select Project>Change Password on the Login Panel menu bar.

🖳 Login F	'anel			
File Edit	Project View He	elp		
약 알	Login			
Node	Logout		Status	Туре
SERVER2	<u>U</u> nange Passw	ora. N2	Logged In	User
SERVER1	LOGIN1	ADMIN1	Logged In	User
SERVER3	LOGIN3	ADMIN3	Logged In	User
•				
				CAP NUM

The Change Password dialog box opens displaying the selected project and user ID.

3. Enter the following to change the password.

Change Password		×
Project: User ID: Old password:	LOGIN3 ADMIN3	OK Cancel
New password: Confirm	XXXXXXX XXXXXXX	

Field	Description
Old password	Password the user is currently using to log into the project.
New password	Password the user will use for the next and future logins.
Confirm	New password repeated.

4. Click either:

ОК	Accepts the new password
Cancel	Keeps the old password.

Either the password is changed to the new password you have entered or the change is cancelled.

Step 2.2. Add/Remove a Saved Log in

- CIMPLICITY® Login dialog box.
- Saved Logins dialog box.

CIMPLICITY® Login dialog box

Check Save User ID + Password in any CIMPLICITY® Login dialog box.

CIMPLICITY® Login - LOGIN1							
User ID : ADMIN1	ОК						
Password : X****	Cancel						
Save User ID + Password	Help						

Result: The user name and password information are saved in the Registry.

Whenever you open any CIMPLICITY screen that requires that user name and password, you are automatically logged in to CIMPLICITY software.

Use the <u>Saved Logins dialog box (page 16)</u> to remove the user from the saved log ins list.

Saved Logins dialog box

1. Select Edit>Saved Logins on the Login Panel menu bar.

🚬 Login Panel								
File Edit Proje	File Edit Project View Help							
Saved Logins								
Node	Project	User	Status	Туре				
SERVER3	LOGIN3	ADMIN3	Logged In	User				
SERVER1	LOGIN1	OPER1	Logged In	User				
SERVER2	LOGIN2	ADMIN2	Logged In	User				
•				Þ				
				NL //.				

The Saved Logins dialog box opens displaying a list of users with saved log ins.

2. Click either of the following.



rect 248, 67, 355, 91 <u>(page 15)</u> rect 248, 89, 355, 118 <u>(page 16)</u>



An Add Saved Login dialog box opens.

a. Enter the following.

Add Saved Login		×
Project:	LOGIN1	OK
User ID:	ADMIN1	Cancel
Password:	*****	
Confirm Password:	*****	

Field	Description						
Project	Project that has the user ID to be saved. Tip: Use the drop-down list button to display the list of available projects in your enterprise.						
User ID	User ID to be saved.						
Password	User's log in password.						
Confirm Password	User's log in password.						

a. Click either:

ОК	Accepts the new password
Cancel	Keeps the old password.

The new entry appears in the Saved Logins list. After you activate the new saved login, whenever you open a screen in this project; you are automatically logged in to the project.

B Remove

- 1. Select a user in the saved Log ins list.
- 2. Click Remove.

The user is removed from the saved log ins list. The next time the user attempts to access or open a feature that requires a log in, the CIMPLICITY® Login dialog box will open for a user name and password.

Step 3. Log out of a Project through the Login Panel

- 1. Select a user in the Login Panel that has a Logged in status.
- 2. Do one of the following.

E١	.ogin P	anel						_ 🗆 🗵
File	Edit	Project	View	Help				
Noc) 🖌	열 Logi 알 Logi	Duri Dut			Status		Туре
SEF	RVER1		nge Pa	sswora		Logged In		User
SEF	RVER3	L D	OGIN3	ADMIN	13	Logged In		User
SEF	IVER2	U	OGIN2	ADMIN	12	Logged In		User
								CAP NL //
A	Clic	k the Lo	og out	t button on	the	Login Pan	el to	olbar.
В	Select Project>Logout on the Login Panel menu bar.							

CIMPLICITY software logs out the user.

- If you have runtime applications open, the:
- User line remains in the Login Panel and
- Status changes to Logged Out.

All runtime applications that you are logged into will be no longer update data. For example, all CimView screens that have animation objects that use points from this project will disable the objects.

• If you are not logged into any runtime application, the:

Login Panel removes the User from the list.

Step 4. Log Back into a Project through the Login Panel

- 1. Select a user in the Login Panel that has a Logged in status.
- 2. Do one of the following.

		Login F	Panel						- O ×
	Fil	e Edit	Proje	ect	View	Help			
ł	<u>ک</u>		BLO	o gin Daout					
	N	ode	d	hang	e Pas:	sword	Status	Туре	
	S	ERVER1		LUG			Logged Out	User	
	SI	ERVER3	}	LOG	IN3	ADMIN3	Logged In	User	
	SI	ERVER2	2	LOG	IN2		Logged Out	User	
								CAP	NUM ///
_									7
	A Click the Log in button on the Login Panel toolbar.								
	в	Select Project>Login on the Login Panel menu bar.							

A CIMPLICITY Login dialog box opens.

3. Enter your user ID and password for logging into the project.

CIMPLICITY® Login - LOGIN1							
User ID :	ADMIN1	OK					
Password :	*****	Cancel					
🔽 Save Us	Help						

CIMPLICITY software logs you back into the project. The status changes to Logged in.

All runtime applications to which you have been logged in that are still open will resume updating data. All CimView screens connected to this project will now have their animation objects enabled.

Note:

- The screen itself may change if visibility animation has been enabled for objects and keyed to User ID and Role ID information.
- If the user ID is a saved login, the Save user ID + Password box will be checked when the CIMPLICITY® Login dialog box opens.

Login Panel Menu and Tools

Login Panel Menu and Tools

Providing you with the capability to easily use the Login Panel are its:

- Menu
- Toolbar

Login Panel Menu Options

You can use the menu options to open a project, toggle the Toolbar and Status bar displays; change display attributes, and access Help.

The menu options are:

- File
- Edit
- Project
- View
- Help

File menu

E<u>x</u>it

The File menu functions are:

Exit Exits the Login Panel.

Edit menu

Saved Logins

The Edit menu functions are:

Saved Logins Opens the Saved Logins dialog box.

Project menu

Login... Logout Change Password..

The Project menu functions are:

Login	Opens the Login dialog box for the selected project.		
Logout	Logs you out of the selected project.		
Change Password	Enables you to change your password for the selected project.		

View menu

✓ <u>T</u> oolbar	
✓ <u>S</u> tatus Bar	

The View menu functions are:

Toolbar	Enables/disables the display of the Toolbar.
Status Bar	Enables/disables the display of the Status bar.

Help menu

Help Topics
<u>A</u> bout LoginPanel

The Help menu functions are:

Help Topics	Opens the Help window for the Login Panel.
About Login Panel	Displays the current version number for the Login Panel utility.

Login Panel Toolbar Buttons

The Toolbar buttons available to you are:

Ĩ	Login	Opens the Login dialog box for the selected project.

P	Logout	Logs you out of the selected project.
?	About	Displays the title, version number and copyright information for the Login Panel

Chapter 3. Show Users

About Show Users

Show Users is an interactive process that lets you show the users on the various CIMPLICITY projects running on your network.

Show Users Steps

Show Users Steps

Following are steps to get CIMPLICITY user information:

<u>Step 1</u> <u>(page</u> <u>21)</u>	Start Show Users.
<u>Step 2</u> <u>(page</u> <u>23)</u>	Change Show Users view options.
<u>Step 3</u> <u>(page</u> <u>24)</u>	Open a Project in Show Users.
<u>Step 4</u> <u>(page</u> <u>27)</u>	Search for user information.
<u>Step 5</u> <u>(page</u> <u>28)</u>	Close a project view in Show Users.

Step 1. Open the Show Users Window

- 1. Select **Runtime>Show Users** in the Workbench left pane.
- 2. Select **Show Users** in the Workbench right pane.
- 3. Do one of the following.
 - Workbench
 - Start menu

Workbench



A	Click Edit>Properties on the Workbench menu bar.		
в	Click the Properties button on the Workbench toolbar.		
С	In the Workbench left pane:		
	Either Or		
	Double click Show Users.	a. Right-click Show Users . b. Select Properties on the Popup menu.	
D	In the Workbench right pane:		
	Either	Or	
	Double click Show Users.	a. Right-click Show Users . b. Select Properties on the Popup menu.	
E	Press Alt+Enter on the keyboard.		

Start Menu

- a. Click Start on the Windows task bar.
- b. Select (All) Programs>Proficy HMI SCADA CIMPLICITY version>Show Users .

Result:

• If no project or more than one project is running.

The appropriate Select CIMPLICITY® Project dialog box opens.

Select the CIMPLICITY project for the Show Users window.

• When a project is running:

The Show Users window opens.



Using the Show Users window, you can:

- Select all projects or a particular project to display.
- Search for users.
- Access Help.
- 4. Right-click Show Users.
- 5. Select Properties on the Popup menu.
- 6. Right-click Show Users.
- 7. Select Properties on the Popup menu.

Step 2. Change the Show Users View Options

- 1. Click View on the Show Users window menu bar.
- 2. Select Options.

The Options dialog box opens.

Options	×
Play a sound	OK
☑ On user login	Cancel
I Un <u>u</u> ser logout	

- 3. Select the options as follows:
 - If you check the **On user login** check box, a sound plays whenever a user logs in to any CIMPLICITY project that you are viewing.

If you uncheck the check box, no sound plays when users log in to CIMPLICITY projects that you are viewing.

• If you check the **On user logout** check box, a sound plays whenever a user logs out of any CIMPLICITY project that you are viewing.

If you uncheck the check box, no sound plays when users log out of CIMPLICITY projects that you are viewing.

- 4. Either:
 - Click **OK** to close the dialog box and save your changes, or
 - Click **Cancel** to close the dialog box without implementing any changes.

Step 3. Open A Project in Show Users

Step 3. Open A Project in Show Users

A project that you open in the Show Users window displays in a Show Users sub-window. You can open more than one project in the Show Users window. Each project has its own sub-window.

For every CIMPLICITY user who is logged in to a project, the project's sub-window displays the:

- User ID,
- Role,
- Node and
- Process ID.

The information in the sub-window updates as users log in and out of the project.

The method for opening a Show Users project varies depending on whether or not a project was recently opened.

<u>Option</u> <u>3.1 (page</u> <u>24)</u>	Open a project that was recently opened.
<u>Option</u> <u>3.2 (page</u> <u>25)</u>	Open a project that was not recently opened.

Option 3.1. Open a Project in the Show Users Window that was Recently Opened

- 1. Click Project on the Show Users window menu bar.
- 2. Click the project you want from the recently opened list.
 - A login dialog box displays.

3. Log into the project.

A project sub-window displays in the Show Users window.

🚆 Show Users - CIMP_S	90@NODE3		_ D ×	
Project Search View Window Help				
🖻 🖬 🛛 🗛 🔍 🖓				
S90@NODE3				
User ID	Role	Node	Process	
ADMINISTRATOR	SYSMGR	NODE3	00017xRZ	
For Help, press F1 //				

Option 3.2. Open a Project in the Show Users Window that was not Recently Opened

1. Do one of the following:

Method 1

- a. Click Project on the Show Users window menu bar.
- b. Select Open.

Method 2

Press Ctrl+O on the keyboard.

Method 3

Click the **Open** button on the Show Users window toolbar.

The Open dialog box opens displaying a list of currently running projects that are broadcasting.

)pen		Þ
Project: CIMPDEMO		Open
NODE5		Cancel
Project	Node	
ALBRED2_TEST ATHENA_DASHBOARD BILLUND CIMP_S90	NODE1 NODE2 NODE3 NODE4	
CIMPDEMO DASHBOARD OPC_SERVER ORAP_LINK QA_ALARMBLINKER67890 SLKWWT	NODE5 NODE6 NODE7 NODE8 NODE9 NODE10	
		-

2. Do one of the following.

Method 1

- a. Select the project you want to open.
- b. Click Open.

Method 2

Double-click the project you want to open.

Method 3

- a. Enter a project name in the **Project** field.
- b. Enter a node name in the **Node** field.
- c. Click Open.

A Login dialog box opens.

3. Log into the project.

A project sub-window displays in the Show Users window. The title bar for the sub-window displays the project name and node name of the computer on which the project is running.

Note: If a project is already open the newly opened project displays in a second sub-window.

	Show Users - CIMPD	EM0@NODE	5				- 🗆 ×
E	roject <u>S</u> earch <u>V</u> iew <u>∖</u>	<u>∧</u> ′indow <u>H</u> elp					
6	🖻 🗀 🗞 🔍 🏸						
E	📙 CIMP_S90@NODE3	i.				- D ×	
F	User ID ADMINISTRATOR	Role SYSMGR	No NO	de DE3	Proce	rss 7xRZ	
	📙 CIMPDEMO@NOD	E5				_	
Ш	User ID	Role		Node		Process	
	ADMINISTRATOR ADMINISTRATOR	SYSMGR SYSMGR		NODE5 NODE3		0000tYI{H 00017xRjc	
Fo	or Help, press F1						11.

Step 4. Search for User Information

- 1. Do one of the following:
 - Select Search... on the Search menu,
 - Click the **Search** button on the Show Users window toolbar.
 - Press **Ctrl+S** on the keyboard.

The Search dialog box opens displaying the last search criteria that were entered.

Search			×
<u>U</u> ser ID:	JANER	-	<u>F</u> ind
<u>R</u> ole:	OPER	•	<u>N</u> ext
N <u>o</u> de:	NODE3	•	Previous
Proce <u>s</u> s:		▼	Close
	Match case		

- 2. Fill in any single or combination of fields to search the list of users in a project.
 - User ID,
 - Role,
 - Node, and/or
 - Process.

Note: You can use the drop-down list buttons to the right of each field to display and select previous search filters.

3. Click Find.

The first user that matches the criteria in the active sub-window's list is highlighted.

4. Use the Search dialog box navigation buttons or quick keys to search for items that match the criteria as follows.

Button (key)	Moves the selection in the active sub-window to the:
Next (Ctrl+N)	Next item that matches the search criteria.
Previous (Ctrl+P)	Previous item that matches the search criteria.

Step 5. Close A Project View in Show Users

- 1. Select the project's sub-window.
- 2. Do one of the following:
 - Select Close on the Project menu.
 - Double-click on the **Control** button for the project.
 - Click the Close button on the Show Users window toolbar.

Show Users Window Menu and Tools

Show Users Window Menu and Tools

Providing you with the capability to easily use Show Users are the Show Users window:

- Menu
- Toolbar
- Shortcut keys

Show Users Menu Options

You can use the menu options to open a project, toggle the Toolbar and Status bar displays; change display attributes, and access Help.

The menu options are:

- Project menu
- View menu
- Help menu
- Search menu

• Window menu

Project Menu

<u>0</u> pen	Ctrl+0
Recent Project	*•••••
E <u>x</u> it	

Feature	Description
Open	Opens a new project on the network.
Recent Project	Displays the list of recently opened projects and lets you select one.
Exit	Exits Show Users.

View Menu

✓ <u>T</u>oolbar
✓ <u>S</u>tatus Bar
<u>O</u>ptions...

Feature	Description
Toolbar	Enables/disables the display of the Toolbar.
Status Bar	Enables/disables the display of the Status bar.
Options	Selects options from the Options dialog box.

Help Menu

Contents
Search for Help On
How to <u>U</u> se Help
About ShowUser

Feature	Description
Contents	Opens the Contents tab in the Show Users help dialog box.
Search for Help On	Opens the Index tab in the Show Users help dialog box.
How to Use Help	Opens the Index tab in the Show Users help dialog box.
About ShowUser	Displays the current version number for the Show Users utility.

Search Menu

Note: When you have one or more projects open in this window, the Search menu is available.

<u>S</u> earch Ctrl+S	
Next Ctrl+N	
Previous Ctrl+P	

Feature	Description
Search	Displays the Search dialog box.
Next	Displays the next line of user information that meets the search criteria.
Previous	Displays the pr evious line of user information that meets the search criteria.

Window Menu

When you have one or more projects open in this window, the Window menu is available. When you select the Window menu, the following drop-down list displays:



Feature	Description
Cascade	Cascades the currently open project windows.
Tile Horizontally	Tiles the currently open project windows horizontally.
Tile Vertically	Tiles the currently open project windows vertically.
Arrange Icons	Arranges the icons for all minimized project windows.
Close All	Closes all project windows.
Open Projects	Displays the list of all opened projects in Show Users. To activate the display of a project in this list, just click on it.

Show Users Toolbar Buttons

Show Users toolbar buttons are as follows.



1	Open	Open a project
2	Close	Closes the active sessions.
3	Search	Searches for a user.

4	Search Next	Searches for the next user.
5	Search Previous	Searches for the previous sure.
6	Tile Windows	Tiles windows horizontally.
7	Tile Windows	Tiles windows vertically.
8	Cascade Windows	Cascades windows.

Show Users Shortcut Keys

You can use the following shortcut keys to initiate commonly used functions:

Shortcut Key	Function				
Ctrl+O	Opens a project.				
Ctrl+S	Opens the Search dialog box.				
Ctrl+N Finds the next entry that matches the criteria in the Search dialog box.					
Ctrl+P Finds the previous entry that matches the criteria in the Search dia					
Alt+Print Screen Captures the contents of the current window to the clipboard.					
F1	Opens the Help window.				
Shift+F1	Invokes the Help cursor.				
Alt+F4 Closes the current window. You will be prompted to save any change					
Ctrl+Esc	Opens the Start Menu on the task bar.				

Chapter 4. Alarm Viewers

About Alarm Viewers

1. System events, such as device failures, program terminations, system startups and system shutdowns.

You create and modify system event alarms in the Alarm Definition dialog box .

Note: CIMPLICITY comes with several configured Event alarms.

2. Points that are in an alarm state, created in the Point Properties dialog box. You can modify them in the Point Properties dialog box or the Alarm Definition dialog box.

CIMPLICITY includes the following Alarm Viewers:

- a. Alarm Viewer OCX Control (AMV Control).
- AMV Control overview.
- AMV Control configuration.
- a. Stand-alone Alarm Viewer (stand-alone AMV).
- Stand-alone AMV overview.
- Stand-alone AMV configuration

Both alarm viewers provide the capabilities to:

- Configure alarm views.
- Display current alarms.
- Modify the state of existing alarms.
- Enter comments about an existing alarm.
- Receive instructions to resolve alarm conditions.
- Filter the alarm list to display only those alarms that have certain characteristics.
- Display alarms in a static view.

In Static view, a user opens a CIMPLICITY Alarm Viewer a current list of alarms displays. This list remains in the window until a user:

- Acknowledges or resets alarms that are configured to be deleted on acknowledge or reset.
- Clicks **Refresh** to display an updated list of alarms when the alarm count changes to the **Unseen Alarm Count** color.
- Display alarms in a dynamic view.

In Dynamic view, the alarm display is updated automatically whenever a new alarm that passes a filter (or unfiltered) list is generated or when the status of an existing alarm changes.

CIMPLICITY AMV Control Overview

A CIMPLICITY AMV Control is an Active X object that you embed in a CimEdit screen.

The AMV Control provides a powerful tool for you to:

• Fully integrate the Alarm Viewer capability with your other CimEdit screens.

For example, you can configure the CimEdit screens so operators can easily move back and forth between other CimView screens and the Alarm Viewer.

- Exercise more control (than for the stand-alone AMV) over user configuration capability during runtime. For example, you can specify whether or not a user, during runtime, can:
- Configure the control.
- Sort fields.
- Choose from all buttons to display for dynamic view. (The stand-alone AMV provides only the <u>Setup (*page 105*)</u> and <u>Toggle (*page 124*)</u> buttons for dynamic view.)
- Take advantage of CimView features, e.g. the zoom screen capability.

amv_ocxs	tatus.cim					١×
Elle Yew He	lp					
🗃 🎒 📢	t1		•			
Alarm ID	Resource ID	Severity	Class	Project Nam	me Message	
ALA	SOUTH	100	TANK	ALARMS	AlL Ais in LoLo. The value 750 exceeded 1000!	
ALM_RT8	TANK	100	HIGH	ALARMS	ALM_RTB is in HiHi. The value 9800 exceeded 50001	
ALM_RTE	TANK	100	HIGH	ALARMS	ALM_RTE is in HiHi. The value 5801 exceeded 5000!	
BILA	NORTH	100	ALOT	ALARMS	BIL, A is in HiHi. The value 5700 exceeded 5000!	
EIL_A	TANK	50	TANK	ALARMS	EIL_Ais in Lo. The value 1200 exceeded 1500!	
FIL_A	TANK	100	TANK	ALARMS	FIL_Ais in LoLo. The value 20 exceeded 1000!	
CIL_A	SOUTH	50	MED	ALARMS	CIL_A is in Hi. The value 4700 exceeded 4500!	
DIL_A	SOUTH	50	MED	ALARMS	DIL_Ais in Lo. The value 1300 exceeded 1500!	
ALM_RTA	NORTH	100	LOW	ALARMS	ALM_RTA is in HiHi. The value 7500 exceeded 5000!	
ALM_RTD	SOUTH	100	LOW	ALARMS	ALM_RTD is in LoLo. The value 251 exceeded 1000!	
ALM_RTF	NORTH	100	LOW	ALARMS	ALM_RTF is in LoLo. The value 1000 exceeded 1000	
GIL_A	NORTH	100	\$SYS	ALARMS	GIL_Ais in HiHi. The value 8000 exceeded 5000!	
Project	State		Count	Date/Time	Setup	
ALARMS	Connected		14	Aug 22 13:26	< <UNFILTERED>>	
14Aug 22 13:26 Toggle Refresh Setup Ack Reset Delete Help						
For Help, press	F1					_ //

CIMPLICITY Stand-alone AMV Overview

1. Open the stand-alone AMV or a stand-alone AMV file,

2. Start CIMPLICITY if it is not already started, and

3. Login.

Alarms that pass a default alarm filter setup display in the stand-alone AMV window.

A user can immediately respond to alarms and/or change the configuration as required.

🔮 S90Alarms.AMV - CIMPLICITY Alarm Viewer 📃 🗆 🗙						
<u>F</u> ile <u>E</u> dit ⊻ie	w <u>L</u> ogin! <u>C</u> onfi	gure <u>H</u> e	elp			
🗅 🚔 日	🖻 🎒 📢					
Alarm ID	Date	Time	Duration	Ac	k Resource ID	Class
TANK_1.LEV	EL Feb 12	11:57	00:45	N	\$SYSTEM	HI(🔺
TANK_3.LEV	EL Feb 12	11:57	00:45	N	\$SYSTEM	HIC
MCP_PROC_	DOWN Feb 12	11:30	28:43	N	\$SYSTEM	HIC
PROCESS_V	SCOSITFeb 12	11:30	00:03	N	PLANT_PROC	
MCP_PROC_	DOWN Feb 12	11:29	28:57	N	\$SYSTEM	HIE
PROCESS_T	EMPER/Feb 12	11:29	00:03	N	PLANT_PROC	
MCP_PROC_	DOWN Feb 12	11:29	29:00	N	\$SYSTEM	HIE
MCP_PROC_	DOWN Feb 12	11:29	29:03	N	\$SYSTEM	HIE
MCP_PROC_	DOWN Feb 12	11:29	29:03	N	\$SYSTEM	HIE
MCP_PROC_	DOWN Feb 12	11:29	29:04	N	\$SYSTEM	HIE
MCP_PROC_	DUWN Feb 12	11:29	29:07	N	\$SYSTEM	HIE
TANK_2.LEV	EL Feb 12	11:29	29:11	N	\$SYSIEM	LU)
590_575	Feb 12	11:29	29:11	N	90-30	
MCP PROC	DUWN Feb 12	11:29	29:11	N	\$5Y5TEM	HIL
21 Feb 12 11:58 Toggle Setup						
For Help, press I	F1				Local	

AMV Control Configuration

AMV Control Configuration

Steps to configure the AMV Control include:

<u>Step 1</u> <u>(page</u> <u>35)</u>	Place an AMV Control on a CimEdit screen.
<u>Step 2</u> <u>(page</u> <u>36)</u>	Resize a new Alarm Viewer OCX Control.
<u>Step 3</u> (page 38)	Open the CIMPLICITY AMV Control dialog box.
<u>Step 4</u> <u>(page</u> <u>39)</u>	Configure the AMV Control alarm count layout.
<u>Step 5</u> (page 41)	Configure the AMV Control fonts and colors.

<u>Step 6</u> <u>(page</u> <u>46)</u>	Specify the AMV Control sort properties.
<u>Step 7</u> <u>(page</u> <u>46)</u>	Specify AMV Control display properties.
<u>Step 8</u> (page 48)	Specify the AMV Control user configuration privileges.
<u>Step 9</u> (page 52)	Specify the projects the AMV Control will monitor.
<u>More</u> <u>(page</u> <u>86)</u>	Steps to configure Alarm Viewer fields and buttons.

Step 1. Place an AMV Control on a CimEdit Screen

Do any of the following to place an AMV control on a CimEdit screen.

- Click the Alarm Viewer OCX button.
- Click the OLE button.

Click the Alarm Viewer OCX button.

Click Alarm Viewer on the in the Drawing>Objects group on the CimEdit Ribbon bar.



Result: An AMV OCX Control is placed on the CimEdit screen. The top left corner is located at the top left corner of the screen.



Click the OLE button
1. Click **OLE** in the Drawing>Objects group on the CimEdit Ribbon bar.



An ActiveX Placement cursor displays on the CimEdit screen.

2. Place the ActiveX Placement cursor where you want the top left corner of the control to be located.

The Insert Object dialog box opens

3. Select CIMPLICITY AMV Control.



4. Click OK.

A new Alarm Viewer control is placed on your CimEdit screen in the location you selected.



Step 2. Resize a new Alarm Viewer OCX Control

Do one of the following.

- Quickly resize the AMV Control.
- Enter precise dimensions for the AMV Control.

Quickly resize the AMV Control

1. Click Resize in the Drawing>Edit group on the CimEdit Ribbon bar.



2. Click one of the object's handles and move it to enlarge or reduce the AMV Control size.



3. Hold the mouse button down while you move the handle.

Note: The screen displays the following.

	1 1 1 I	OmEdt1* - OmEdt		
Ren Ren Ren	Home Drawing Format Arrange State Zoom ✓ Line — Rectangle shape Tab Order ✓ Polyline J Arc Lot ☑ Polyline ✓ Arc Lot ☑ Polyline ✓ Arc Lot ☑ Polyline ✓ Arc	Picture Diplet Class Text Text	LE SAlarm Viewer end SHistorical Alarm Viewer C Carlo Proficy Portal Objects	
For He	0 Jan 29 09:37 Toggle 1 0 Jan 29 09:37 Toggle 1 0 Jan 29 09:37 Toggle 1	Date Time State	A State A + View State B	
A	The handle that is bei	ing dragged chang	ges to a crossha	air.
В	The original size disp	lays within the orig	ginal handles du	uring the re-sizing process
С	The Alarm Viewer's n	ew size display fo	llows the cursor	r.

4. Release the mouse button.

Result: The Alarm Viewer control displays in the new size.

Precise dimensions for the AMV Control

- 5. Select the Alarm Viewer control.
- 6. Do one of the following.

• Click Properties in the Home>Properties group on the CimEdit Ribbon bar.



• Click the right-mouse button on the Alarm Viewer control; select Properties on the Popup menu.

The CimEdit Properties - Object dialog box opens when you use either method.

7. Select Geometry.

8. Enter the following.

		0		
Properties - Object				×
Colors	Position-		_	
Geometry	Top:	165 pt	Width:	360 pt
General	Left	30 pt	Height:	155pt
Movement	-	·		
Scaling	Rotation			
Rotation/Fill	Angle:	0		
Color Animation	Vertical shear:	0		
Transparency	Horizontal shear	0		
Events				
Script				
Variables				
Menus				
Procedures				
Control Properties				
	OK.	Cancel Ap	xply He	4

Field	Description
Тор	Number of points starting from the bottom of the screen where the AMV Control top is located.
Width	Width of the object in points.
Left	Number of points starting from the left of the screen where the left side of the AMV Control is located.
Height	Height of the object in points.

The AMV Control enlarges/ reduces and moves to the size you specify.

Step 3. Open the CIMPLICITY AMV Control Dialog Box

- 1. Right-click the Alarm Viewr chart
- 2. Select CIMPLICITY AMV Control Object>Properties on the Popup and extended Popup menus.



The CIMPLICITY AMV Control Properties dialog box opens when you use any method.



Step 4. Configure the AMV Control Alarm Count Layout

Select the Count Layout tab in the CIMPLICITY AMV Control Properties dialog box.

Count fields selections are as follows.

CIMPLICITY AMV Con	trol Properties		×
Fields Butte	ons Projects	Display	Sorting
Count Layout	Date Format	Fonts	Colors
1 Position	3 Eields		
☐ <u>C</u> enter count	Date	м	Move Up love Down
2 Orientation —			
<u>H</u> orizontal			
C ⊻ertical			
OK	Cancel	Apply	Help

rect 5, 50, 99, 116 <u>(page 40)</u> rect 4, 122, 109, 197 <u>(page 41)</u> rect 100, 52, 316, 169 <u>(page 41)</u>

<u>1</u> <u>(page</u> <u>40)</u>	Position
<u>2</u> (page 41)	Orientation
<u>3</u> (page 41)	Fields

1 Position

Check the Position check boxes to specify the fields' position in the AMV Control as follows.

Position of fields in the AMV Control	Top of screen	Center count
Bottom left-hand corner of the AMV Control.	Clear	Clear
Upper left-hand corner of the AMV Control.	Check	Clear

Centered at the top of the AMV Control.	Check	Check
Ack Reset Delete Toggle Setup Refresh Help View-Stack Comm		
Note: Center count is enabled when you chec	k Top of screen.	I

2	Orientation
---	-------------

Choose one of the following.

Horizontal		Side by side in the order you specify.
Vertical		One on top of the other in the order you specify.
3	Fields	

The following fields, when checked, display the following in the Alarm Control.

0	Mar 8	12:55 C
А	Count	Alarm count
в	Date	Date the alarm was generated.
С	Time	Time the alarm was generated.

The following buttons move the fields to the left or right in the AMV Control.

Move Up	Moves the field to the left.
Move Down	Moves the field to the right.

Result: The alarm count information displays according to your specifications.

Step 5. Configure the AMV Control Fonts and Colors

- AMV Control fonts.
- AMV Control colors.

AMV Control Fonts

1. Select the Fonts tab in the CIMPLICITY AMV Control Properties dialog box.

Fonts can be configured for the following AMV Control features.

- Alarm
- Button
- Count
- Date
- Status
- 2. Select a feature.
- 3. Click Font...



The font dialog box opens.

4. Make the customary font selections.



If an alarm message that needs to use non-Western characters (e.g. Cyrillic, Chinese) displays ???? instead of the message, changing the **Script** selection in the Font dialog box may correct the issue.

The Script drop-down list will display the character types available for the selected font.

Note: The stand-alone Alarm Viewer displays only the language selected for the operating system.

5. Click OK.

The new specifications display for that selected feature.

- 6. Repeat the procedure if you want to configure the font for other features.
- 7. Click Apply.

Eields	Control Prope	erties Projects	Dieplau	X Sorting
Count Layou	t Date	Format	Fonts	Colors
Text Alarm Button Count Date Status	Font Arial Verdana Arial Verdana Arial	Size 10 8 8 8 8		<u>F</u> ont
	ок	Cancel	Apply	Help

The selected fonts and sizes display in the AMV Control.

🐣 AMY_OCX.cim		
File View Help		
😂 🎒 🎗 🐛 1 🗉) 🗏 🖭	
7 Mar 8 17:02		
Date Time Project Name	Ack Alarm ID	State
Mar 08 17:02 ALARMS	N DB_CONN_DOWN	ALARM
Mar 08 17:02 ALARMS Mar 08 17:01 ALARMS	N TR175	ALARM
Mar 08 17:01 ALARMS	N TR165	ALARM
Mar 08 17:01 ALARMS	N TRI50	ALARM (
Ack Reset Delete		
Toggle Setup Help Vi	ew Stack Comments	
For Help, press F1		ſ

AMV Control Colors

You can select colors for each of the AMV Control properties.

Selections are as follows.

CIMPLICIT	Y AMV Cont	rol Pro	perties		×
Fields Count	Butto	ns Dat	Projects le Format	Display Fonts	Sorting Colors
1 Property <u>N</u> AlarmBG 2 System <u>C</u> Active Br Scroll Ba Window Window Window	Name: Color olor: order rs Background Frame Text	*			_
	OK		Cancel	Apply	Help
<u>1</u> (page 44)	Proper	ty na	me		
<u>2</u> (page 44)	Color f	or sel	lected pro	operty	
1 Prop	erty nan	ne			

Select a property in the **Property Name** drop-down list.

Selections are as follows.

Listed Property	Property
AlarmBGColor	Alarm list background
ButtonBGColor	Button background
CountAlarmColor	Alarm count text
CountBGColor	Count background
CountNormalColor	Normal count text
StatusBGColor	Status background
StatusTextColor	Status text.

2 Color for selected property

Do either of the following to select a color for the selected property.

Select a system color

1. Select a color in the System Color drop down list.

Available selections are as follows.

Active Border	Highlighted Text
• Active Title Bar	Inactive Border
• Active Title Bar Text	Inactive Title Bar
Application Workspace	Inactive Title Bar Text
Button Face	• Menu Bar
Button Highlight	• Menu Text
Button Shadow	Scroll Bars
Button Text	Window Background
• Desktop	• Window Frame
Disabled Text	• Window Text
• Highlight	

1. Click Apply.

Select a color in the palette

1. Click a color in the palette.



1. Click Apply.

The selected properties will display during runtime in the selected colors.

Note: The Alarm font colors are selected in the Alarm class configuration.

Step 6. Specify AMV Control Sort Properties

- 1. All unacknowledged alarms in ALARM state are first.
- 2. All unacknowledged alarms in NORMAL state are next.
- 3. All acknowledged alarms in ALARM state are last.
- 4. All unacknowledged alarms in ALARM state are last.
- 5. All unacknowledged alarms in NORMAL state are next.
- 6. All acknowledged alarms in ALARM state are first.

Step 7. Specify AMV Control Display Properties

Check any of the check boxes in the **Display** box to display the feature in the AMV Control during runtime.

- Check boxes.
- Runtime display example.

Check boxes



rect 24, 78, 120, 99 <u>(page 47)</u> rect 25, 99, 121, 120 <u>(page 47)</u> rect 24, 119, 132, 148 <u>(page 47)</u> rect 147, 75, 323, 102 <u>Step 8. Specify AMV Control User Configuration Privileges (page 48)</u> rect 131, 101, 344, 127 <u>(page 47)</u>

1	Field titles	Display colu runtime, if e	mn titles. The column titles must display in order to allow users to sort by title during nabled.	
2	Status box	Display a sta • Project(• (Conne • (Alarm) • Date/Tii • Setup (atus box that provides information about the: (s) cted) State Count per project, me and Filter being used).	
3	Begin in Static	Static mode	atic mode (at startup).	
4	Show alarm clear time in view stack		ew stack	
		Select when	to provide a timestamp as follows.	
		Check	 Provides time for when a value: Goes into Alarm state. Goes into Normal state (is cleared). 	
		Clear	Provides the time for when a value goes into Alarm state.	

Runtime display example

Following are examples of how the AMV Control displays based on your selections.

• AMV Control with all display features selected



rect 1, 51, 248, 68 <u>(page 47)</u> rect 4, 175, 279, 225 <u>(page 47)</u> rect 88, 226, 149, 243 <u>(page 47)</u>

• AMV Control with no display features selected

AMV_OCX	.cim				
Ele yew H	telp				
🔗 🛎 K	🛿 🛛 t 1 🛛 🗖		10		
12 Aug 23 1	9:41				
Aug 23 19:41	ALARMS	N	ALM_RTE	ALARM	ALM_RTE is in HHI. The value
Aug 23 19:41	ALARMS	N	BL_A	ALARM	BL_A is in HHi. The value 57
Aug 23 19:41	ALARMS	N	EL_A	ALARM	EL_A is in Lo. The value 120
Aug 23 19:41	ALARMS	Ν	FIL_A	ALARM	FIL_A is in LoLo. The value 2
Aug 23 19:41	ALARMS	Ν	CIL_A	ALARM	CL_A is in Hi. The value 470
Aug 23 19:41	ALARMS	N	DIL_A	ALARM	DL_A is in Lo. The value 130
Aug 23 19:41	ALARMS	N	ALM_RTA	ALARM	ALM_RTA is in HHi. The valu
Aug 23 19:41	ALARMS	Ν	ALM RTD	ALARM	ALM RTD is in LoLo. The vali
Ack R	eset Delete				
Toggle	Setup Help	V	iew Stack	Comments	
For Help, pres	s F1				

Step 8. Specify AMV Control User Configuration Privileges

- Configuration for runtime configuration access.
- Runtime configuration features.

Configuration for runtime configuration access

- 1. Select the Display tab in the CIMPLICITY AMV Control Properties dialog box.
- 2. Do one of the following in the Allow runtime popup menu checkbox.

CIM	PLICITY A	M¥ Contro	Properties		×	
	Count La	yout	Date Format	Fonts	Colors	
	Fields	Buttons	Projects	Display	Sorting	
	Displa 또 또 도 도	y jield titles itatus bo <u>x</u> tegin in static	Allow run	itime popup <u>m</u> enu		
		OK	Cancel		Help	
_	,					

Check	Users will be able to display a Configuration Popup menu during runtime.
Clear	Users will not be able to display a Configuration Popup menu during runtime.

Result: Users will have access to Alarm Viewer Control configuration.

Runtime configuration features

Note: Viewing the Popup menu, Point Control Panel and/or Quick Trends through the Alarm Viewer OCX is available if the role assigned to your user ID has authorization.

Runtime configuration features are as follows.



rect 213, 67, 372, 86 Option 9.1. Add Projects and Default Filters to the AMV Control (*page* 52)

rect 213, 84, 372, 103 Option 9.2. Delete Projects from the AMV Control List (page 56)

rect 213, 101, 372, 120 (page 50) rect 213, 129, 372, 148 (page 50) rect 213, 146, 372, 165 (page 51)

1	Add Project.
<u>(page</u> <u>50)</u>	

2 (pa 50	<u>age</u>))	Remove Project.
<u>3</u> (pa 50	a <u>ge</u>))	Copy Alarms
<u>4</u> (pa 50	a <u>ge</u>))	Use Ambient Properties
<u>5</u> (page 51)		Properties
1	Add	Project

Projects can be added to the Alarm Viewer Control before and during runtime (page 55).

```
2 Remove Project
```

Projects can be removed from the Alarm Viewer Control before and <u>during runtime (*page* 56)</u>.

3 Copy Alarms

- 3. Select one or more alarms in the AMV Control.
- 4. Display the Popup menu.
- 5. Select Copy Alarms.

The selected alarms and details are copied.

6. Paste the alarms and details in any text file.



4 Use Ambient Properties

Select Ambient Properties on the Popup menu.

The AMV Control display uses the CimEdit Ambient properties.

AMV_OCX.cim			
Eile Yew Help			
🗃 🖉 🏘 🛍 🖬 1			
14 Aug 23 22:46			
Alarm ID	Resource ID	Severity	Class Pr
AIL_A	SOUTH	100	TANK A
ALM_RTB	TANK	100	HIGH A
ALM_RTE	TANK	100	HIGH A
BIL_A	NORTH	100	ALOT A
Toggle Refre	sh Setup /	Ack Rese	t Delete
For Help, press F1			

The Ambient Properties will be in the CIMPLICITY AMV Control Properties dialog box during this runtime session.

CIMPLICITY AMV Co	ntrol Propertie	25		3	×
Fields B	uttons Pro	ojects	Display	Sorting	1
Count Layout	Date Form	nat	Fonts	Colors	İ.
Text Alarm Button Count Date Status	Font Comic Sans Comic Sans Comic Sans Comic Sans	Size 12 12 12 12 12 12 12		Eont	
0	K Can	cel	Apply	Help	

However, this setting is temporary. The next time the AMV Control is opened, the properties configured for the AMV control will display again.

5 Properties...

- 7. Display the Popup menu.
- 8. Select Properties...

The CIMPLICITY AMV Control Properties dialog box opens.

The user has full access to the Alarm Viewer control configuration.

IMPLICITY AMV Con	trol Properties <		×
Count Layout Fields Butt	Date Format ons Projects	Fonts Display	Colors Sorting
X 1 Alarm ID 1 Resource ID 1 Severity 1 Class 1 Project Nam 1 Time		Row Up	
Mode © <u>S</u> tatic © Dynamic		Modify	
OK	Cancel	Apply	Help

Step 9. Specify the Projects the AMV Control will Monitor

Step 9. Specify the Projects the AMV Control will Monitor

During configuration, you can select and delete projects to be included in the AMV Control display.

Note: Runtime users can also perform these functions if the runtime AMV Control Popup menu is enabled (*page 48*).

<u>Option</u> <u>9.1 (page</u> <u>52)</u>	Add projects and default filters to the AMV Control.
<u>Option</u> <u>9.2 (page</u> <u>56)</u>	Delete projects from the AMV Control list.

Option 9.1. Add Projects and Default Filters to the AMV Control

- Add projects during configuration.
- Add projects during runtime.

1. Select the Projects tab in the CIMPLICITY AMV Control Properties dialog box.

2. Options to add projects are as follows.

CIMPLICITY AN	ባ¥ Control Pr	operties		×
Count Lay	out D	ate Format	Fonts	Colors
Fields	Buttons	Projects	Display	Sorting
Project ALARMS CIMPDEMC NORTH_F 2	Setup ALAR ALAR 3	м1 м3	2 <u>A</u> <u>D</u> e	dd Project lete Project <u>S</u> etup
1 I Connect	to local project			
	ОК	Cancel	Apply	Help

rect -5, 169, 151, 197 <u>(page 53)</u> rect 19, 65, 103, 156 <u>(page 53)</u> rect 228, 64, 312, 89 <u>(page 53)</u> rect 105, 65, 189, 156 <u>(page 54)</u> rect 231, 110, 315, 135 <u>(page 54)</u>

<u>1</u> (pa 53	age	Connect to local project
2 (pa 53	a <u>ge</u> !)	Add project
<u>3</u> (pa 54	<u>age</u>	(Optional) Select setup
1	Con	nect to local project

Check to do the following.

When a user opens the CimView screen containing this Alarm Viewer control, the control automatically connects to the currently running local project and opens the CIMPLICITY Login dialog box for user login.



Opens the Select Project dialog box.



- 3. Do one of the following.
 - a. Select a project from the available projects in the drop-down menu.

Note: If the server is connected to a network, the Project drop down menu displays all of the running projects that are being broadcast on the network.

- a. Enter any of the following.
- Project name
- Node name
- IP address
- Cluster name
- Cluster IP address

Important: If cabling redundancy is configured on a server and you attempt to connect by cluster name or IP address, the connection will fail.

- 4. Click OK to add the project to the list in the Projects tab.
- 5. Repeat the procedure until all of the required projects have been selected.

Result: The projects display in the Projects list.

3 (Optional) Select Setup

Opens the Project Settings dialog box in which you can enter the default alarm setup.



6. Enter the default alarm filter

Note: You configure alarm filters when you configure the <u>AMV Control buttons (*page 110*)</u>. The default is <<UNFILTERED>>.

7. Click OK.

The entered setup displays in the Setup column in the selected project's row.

Result: When a user opens the CimView AMV Control screen:

- If the selected setup (filter) exists the alarms display adheres to the setup's specifications.
- If the alarm setup does not exist, an error message displays when the CimView AMV Control screen is opened.

amvocx	×
⚠	Setup does not exist.
	ок

When **OK** is clicked, an unfiltered alarm list appears.

If the setup is created during the session, it will be the default the next time the CimView Alarm Viewer screen is opened.

Add projects during runtime

During runtime a user can quickly add projects by right-clicking the Alarm Viewer control

8. <u>Right-click (page 49)</u> the Alarm Viewer OCX.

A Popup menu opens.

9. Select Add Project.



The Select Project dialog box opens.



10. Do one of the following.

Select one of the running projects from the **Project** field.

Enter one of the following.

- Project name
- Node name

- IP address
- 11. Click OK.

Option 9.2. Delete Projects from the AMV Control List

- Delete projects during configuration.
- Remove projects during runtime.
- Delete projects during configuration
- 1. Select the Projects tab in the CIMPLICITY AMV Control Properties dialog box.
- 2. Select the project to delete.
- 3. Click Delete Project.

CIMPLICITY AMV Cont	trol Properties		×
Count Layout Fields Butte	Date Format ons Projects	Fonts Display	Colors Sorting
Project ALARMS CIMPDEMO NORTH_F	Setup ALARM1 ALARM3		dd Project lete Project Setup
Connect to Jocal p	Cancel	Apply	Help

The project is deleted from the list.

4. Repeat until all of the projects are selected. Remove projects during runtime

During runtime a user can quickly remove projects by right-clicking the Alarm Viewer control

5. <u>Right-click (page 49)</u> the Alarm Viewer OCX

A popup menu appears.

6. Select Remove Project.

AMV_00	XStatus.cim					
Elle Yew	Help					
🔗 🍯	1 t 1					
Alarm 10	Resource ID	Severit	Class	Project Nav	e Message	
AL A	SOUTH	100	TANK	ALAEMS	AL Air in La	Lo. The value 750 exceeded 10001
ALM_RT8	TANK	100	HIGH	ALARMS	AUM_RTB is in	HiHi. The value 9000 exceeded 50001
ALM_RTE	TANK			ALARMS	ALM_RTE is in	
BIL A	NORTH	100	ALOT	ALARMS	BIL Air in H	Add Project
EILA	TANK	50	TANK	ALAP3MS	EL Ais in L	Hadriojoccini
FIL_A	TANK	100	TANK	ALARMS	FIL Ait in	Domous Drojoch
CIL,A	SOUTH	50	MED	ALARMS	CIL_AIS IN	Remove Project
UIL A	3001H	50	MED	ALAPONS	UL AB N 1	
NAME NOT	NURTH	100	LOW	01.000.000	ALM REALS IN	Copy Alarms
NUM_RID	NORTH	100	LOW	AL APONS	ALM RTE LET	
PENCICIP	NORTH	100	60 V 0	ALAPPENS	ALM ALT DIE	
	and the second s	100		Page 4 and 2	10-10 Pr 10 Pr 1	Lice Ambient Properties
						Use Ambienc Propercies
Project	State		Count	Oute/Time	Setup	Duesewhite
AL ADD RD	Concerned		1.4	Aug 22 12:26	CONCUTS	Propercies
	CONNECTED			Aug 22 10:20	STORF IL IS	
						Point Control Panel
14 Aug 22 1	13:26 Toggle	Refre	ch Se	tup Ack	Reset D	QuickTrends
For Help, pre	ess F1					

The Disconnect Project dialog box opens displaying a list of projects attached to the Alarm Viewer control.

Disconnect Project	×
Project:	OK
CIMPDEMO NORTH F	Cancel
TRK61	

- 7. Select the project to disconnect.
- 8. Click OK.

Stand-alone AMV Configuration

Stand-alone AMV Configuration

Steps to configure the stand-alone AMV are:

<u>Step 1</u> <u>(page</u> <u>58)</u>	Start the stand-alone AMV.
<u>Step 2</u> (page 63)	Select an AMV file.
<u>Step 3</u> <u>(page</u> <u>66)</u>	Configure the alarm count layout.
<u>Step 4</u> <u>(page</u> <u>72)</u>	Select the alarm list font and background color.

<u>Step 5</u> <u>(page</u> <u>76)</u>	Work with the Stand-alone AMV.
<u>Step 6</u> <u>(page</u> <u>81)</u>	Specify how a Stand-alone AMV file will connect to a project.
<u>Step 7</u> <u>(page</u> <u>85)</u>	Configure AMV fields and buttons.
<u>Step 8</u> <u>(page</u> <u>85)</u>	Exit the Stand-alone AMV.
<u>More</u> <u>(page</u> <u>86)</u>	Steps to configure Alarm Viewer fields and buttons.

Step 1. Start the Stand-alone AMV

Step 1. Start the Stand-alone AMV

Steps to start the stand-alone AMV are:

<u>Step 1.1</u> (page <u>58)</u>	Open the stand-alone AMV.
<u>Step 1.2</u> (page <u>61)</u>	Login to the stand-alone AMV.

Step 1.1. Open the Stand-alone AMV

Step 1.1. Open the Stand-alone AMV

Because Stand-alone AMV is a runtime application, you can open it on either a:

<u>Option</u> <u>1.1.1 (page</u> <u>58)</u>	Configuration server/viewer, or
<u>Option</u> <u>1.1.2 (page</u> <u>60)</u>	Runtime server/viewer.

Option 1.1.1. Open the stand-alone AMV on a Configuration Server or Viewer

Open the Alarm Viewer through the:

- Workbench.
- Start Menu.

Workbench

- 1. Make sure the CIMPLICITY project is running.
- 2. Select Runtime>Alarm Viewer in the Workbench left pane.
- 3. Do one of the following.



A	Click Edit>Properties on the Workbench menu bar.				
В	Click the Properties button of	on the Workbench toolbar.			
С	In the Workbench left pane: a. Right-click Alarm Viewer . b. Select Properties on the Popup menu.				
D	In the Workbench right pane):			
	Either Or				
	Double click Alarm Viewer.a. Right-click Alarm Viewer.b. Select Properties on the Popup menu.				
E	Press Alt+Enter on the keyb	oard.			

a. Result: An untitled, empty Stand-alone AMV window displays when you use any method.

l Untitled - CIMPLIC	ITY Alarm Viewer					0	O X
File Edit View	h! Configure He	lp					
0 📽 🖬 🐘 🖥	5 K2						
Alarm ID	Resource ID	Class Date	9 Time	State	Ack		
	\square						
	Halo Catur	Defrach	Manu Cta	ch Cr	mmante	Togala	
	Help Setup	Refresh	View Sta	ck Co	mments	Toggle	
	Help Setup Ack Reset	Refresh Delete Ac	View Sta k and Re	ck Co set A	ck First	Ack All	CimVie

Start Menu

- 4. Right-click Alarm Viewer.
- 5. Select Properties on the Popup menu.
- 6. Right-click Alarm Viewer.
- 7. Select Properties on the Popup menu.
- 8. Click Start on the Windows task bar.
- 9. Select All Programs>HMI SCADA CIMPLICITY <version>Alarm Viewer

An untitled, empty Stand-alone AMV window displays.

😫 Untitled - CIMPLICITY	Alarm Viewer						
File Edit View	el Configure He	lp					
D 📽 🖬 🖻 🐻	K?						
Alarm ID	Resource ID	Class	Date	Time	State	Ack	
H	lelp Setup	Refrest	h Vie	w Sta	k Co	omments To	ggle
0 Mar 19 19.05	k Reset	Delete	Ack a	nd Re	set A	Ack First Ack	All CimViev
For Help, press F1						Local	Ho

i **Tip:** Once you have configured an Alarm Viewer file you can create a shortcut for the Windows desktop or Start menu. A user can then double-click the shortcut and display both the stand-alone AMV and alarms in the connected project in one or two easy steps. The exact steps depend on you specifications for connecting the file to a project.

Option 1.1.2. Open the Alarm Viewer on a Runtime Server or Viewer

A system administrator can control how Alarm Viewer opens and what alarms it displays on a runtime server or viewer.

Very commonly, the Alarm Viewer that is embedded in a CimView screen starts when the runtime server or viewer is booted.

Also commonly, an operator can click an icon on the Windows desktop to open a pre-configured Alarm Viewer.

In other instances, the Alarm Viewer can be started through the Windows Start menu.

Note: If the user has not logged in a CIMPLICITY® Login dialog box displays and the user must log in before the CimView screen can be enabled.

Step 1.2. Login to the Alarm Viewer

<u>1</u> <u>(page</u> <u>61)</u>	Start the Log in.
<u>2</u> (page <u>61)</u>	(If the router is not running) start the router.
<u>3</u> <u>(page</u> <u>62)</u>	Log into the Alarm Viewer.

1. Start the Log in.

Click Login! on the Alarm Viewer menu bar.

😫 Untitled - CIMPLICITY Alarm Viewer								
File Edit View Login! Co	ile Edit View Login! Configure Help							
🗅 🛎 🖬 🖬 📥 🕷	?							
Alarm ID	Resource ID	Class	Date	Time	State	Ack		
1								
L			1					
				-				

1. Start the router.

If the router is not running a Select a CIMPLICITY Project dialog box opens when you click Login!. The dialog box displays available projects.



1. Select any project to which you have access.

Note: The project does not have to be the one that displays in the active Workbench.

2. Click Start (or Start as Viewer).

a. Log into the Alarm Viewer.

(If logging in is required) a CIMPLICITYâ Login dialog box opens.

CIMPLICITY® Login - CIMPDEMO	×
User ID : UserID	OK
Password :	Cancel
🔲 Save User ID + Password	Help

- 3. Enter your User ID and Password.
- 4. Click OK.

(When opened through the Start menu) a Project dialog box opens.

- a. Enter any of the following.
- Project name
- Server name
- IP address
- Cluster name
- Cluster IP address

Important: If cabling redundancy is configured on a server and you attempt to connect by cluster name or IP address, the connection will fail.

Select Project 🛛 🗶						
•						
Cancel						

a. Click OK.

The project starts after you have entered your User ID and password, if they are required. When the project has started its active Alarm IDs display in the Alarm Viewer.

💁 Untitled - CIMPLICITY Alarm Viewer							
File Edit View Login! Configure Help							
Date Time Dura	tion AckAlarm ID	Resource ID Class	State Mess				
Aug 18 16:36 04:10) N DB CONN DOWN	N \$SYSTEM \$SYS	ALARM T				
Aug 18 16:36 04:0	4 N DB_CONN_DOWN	N \$SYSTEM \$SYS	ALARM T				
Aug 18 16:33 02:5	5 N MCP_PROC_DOW	/N \$SYSTEM HIGH	ALARM F				
Aug 18 16:32 03:3) N MCP_PROC_DOW	/N \$SYSTEM HIGH	ALARM F				
Aug 18 16:32 00:0	3 N PROCESS_VISCO	SIT\PLANT_PROCESHIGH	NORMAL F				
Aug 18 16:32 00:0	<u>3 N PROCESS_TEMPI</u>	ERAPLANT_PROCESHIGH	NORMAL F				
Aug 18 16:32 04:14	4 N TANK_LEVEL	TANK HIGH	ALARM S				
4 10 10 22 04 1			ALADM T				
8 Aug 18 16:36	Toggle Setu	p					
For Help, press F1		Local	o //				

Note: If the CIMPLICITY project that displays in the Workbench is running, the Alarm Viewer displays the alarms in that project when Login! is clicked on the Alarm Viewer menu bar–even if more than one project is running.

Step 2. Select an Alarm Viewer File

Step 2. Select an Alarm Viewer File

You can select an Alarm Viewer file that contains the setup you want to use to review alarms.

Options include:

<u>Option</u> <u>2.1 (page</u> <u>63)</u>	Display a new Alarm Viewer file.
<u>Optiion</u> <u>2.2 (page</u> <u>64)</u>	Open an existing Alarm Viewer file.

Note: You can also simply view the configuration that displays when you open the stand-alone AMV.

Option 2.1. Display a new Alarm Viewer File

Do one of the following.

Method 1

- 1. Click File on the Alarm Viewer menu bar.
- 2. Select New.

Method 2

Double-click the **New** button on the Alarm Viewer toolbar.

Method 3

Press **Ctrl+N** on the keyboard.

The File name that appears on the existing stand-alone AMV title bar displays as **Untitled**. The next time you save the file, you will be prompted to name it.



Option 2.2 Open an existing Alarm Viewer File

Option 2.2. Open an existing Alarm Viewer File

If a saved Alarm Viewer file (AMV) contains the configuration you need for dealing with alarms you can open it and connect to the appropriate project according to the specifications made when the project was saved.

The Alarm Viewer enables you to easily:

<u>Option</u> 2.2.1 (page <u>65)</u>	Open a recently used Alarm Viewer file.
<u>Option</u> <u>2.2.2 (page</u> <u>65)</u>	Open any existing Alarm Viewer file.

i **Tip:** You can also create a shortcut to open an Alarm Viewer file. This is an efficient way of making the correct Alarm Viewer configuration available to users.

Option 2.2.1. Open a Recently Used Alarm Viewer File

- 1. Click File on the Alarm Viewer menu bar.
- 2. Select any of the files listed on the File menu.

The file displays in the stand-alone AMV with the configuration you saved.

Saved Alarm Viewer File: Example S90Alarms.AMV - CIMPLICITY Alarm Viewer _ 🗆 × File Edit View Login! Configure He 🗅 🚅 🔒 📭 🍊 📢 Alarm ID Date Time Duration Ack Nesource ID Class 11:57 00:45eb 1 HIC 🔺 00:45 ANK_3.LEVEL Feb 12 11:57 00:45 ICP_PROC_DOWN Feb 12 11:30 28:43 ROCESS_VISCOSITFeb 12 11:30 00:03 HII TF HIG PLANT PR SHIC _PROC_DOWN_Feb 12 11:29 28:57 YSTEI HIG N SHIC ROCESS TEMPER/Feb 12 00-03 ANT P PROC_DOWN PROC_DOWN Feb 12 29:00 11:29HI Feb 12 11:29 HIC 29:03 N PROC DOWN Feb 12 29:03 N HIG 11:29 PROC_DOWN eb 12 29:04 HIE 11:29 N HIE L0' L0' 29:1 ICP PROC DO 29:11 HI Toggle Setup 21 Feb 12 11:58 Local For Help, press F1

Option 2.2.2. Open any Existing Alarm Viewer File

1. Open the Open dialog box.

Method 1

- a. Click File on the stand-alone AMV menu bar.
- b. Select Open.

Method 2

Double-click the **Open** button in the stand-alone AMV toolbar.

Method 3

Press **Ctrl+O** on the keyboard.

The Open dialog box opens when you use any method.

Open			? X
Look <u>i</u> n:	🔁 Screens	•	<u>er</u> 🔳
	TYWEB_files		
GECIMPLI G80Alarms	ICHY_files 2 AMV		
S90Alarms	.AMV		
File <u>n</u> ame:			<u>O</u> pen
Files of <u>type</u> :	AMV Files (*.amv)	•	Cancel

2. Find and select the .PPL file you want.

Saved Alarm Viewer File: Example

The file displays in the stand-alone AMV with the configuration you saved.

S90Alarms.AM	V - CIMPLIC		arm Viewei	5		
<u>Eile Edit View</u>	Login! <u>C</u> onfi	qure H	elp			
🗅 🚅 🔛 🖣	a / 🛃 📢					
Alarm ID	Date	Time	Duration	Ac	k Nesource ID	Class
TANK_1.LEVEL	Feb 12	11:57	00:45	N	\$SYSTEM	HIC 🛋
TANK_3.LEVEL	Feb 12	11:57	00:45	N	\$SYSTEM	HIG
MCP_PROC_DOV	WN Feb 12	11:30	28:43	N	\$SYSTEM	HIE
PROCESS VISC	DSITFeb 12	11:30	00:03	N	PLANT_PROC	ESSHIC
MCP PROC DOV	WN Feb 12	11:29	28:57	N	\$SYSTEM	HIC
PROCESS TEMP	PER/Feb 12	11:29	00:03	N	PLANT PROC	ESSHIC
MCP PROC DOV	✓N Feb 12	11:29	29:00	Ν	\$SYSTEM	HIC
MCP_PROC_DOV	WN Feb 12	11:29	29:03	N	\$SYSTEM	HIG
MCP_PROC_DOV	WN Feb 12	11:29	29:03	N	\$SYSTEM	HIG
MCP_PROC_DOV	WN Feb 12	11:29	29:04	N	\$SYSTEM	HIG
MCP_PBOC_DOV	WN Feb 12	11-29	29.07	Ň	\$SYSTEM	HIG
TANK 21 EVEL	Feh 12	11-29	29.11	N	\$SYSTEM	1.01
\$90 575	Feb 12	11:29	29:11	Ň	90-30	ī ī ī
MCP PROC DOV	WN Feb 12	11:29	29:11	N	\$SYSTEM	HIC
21 Feb 12 11:58	Togg	le	Setup			
For Help, press F1					Local	

Step 3. Configure the Alarm Count Layout

Step 3. Configure the Alarm Count Layout

The Alarm Count display tells you how many alarms have been generated and the time and date of the most recently generated alarms. You have complete flexibility with how to display this information on the Alarm Viewer screen.

Configuration includes:

<u>Step 3.1</u> (page 67)	Open the Alarm Count Configuration dialog box.
<u>Step 3.2</u> (page 67)	Specify the layout of the count information.
<u>Step3.3</u> (page 69)	Select the alarm count colors.
<u>Step 3.4</u> (page 70)	Select the alarm count fonts.



- 1. Click Configure on the Alarm Viewer menu bar.
- 2. Select Count Layout.

The Alarm Count Configuration dialog box opens.

Alarm Count Configuration	×
Layout Colors Fonts	
Position	Orientation-
Alarm at Top of Screen	Horizontal
Center Count	C Vertical
Fields Count Date Time	Move Up Move Dawn
OK Cancel	Apply Help

Step 3.2. Configure the Alarm Count Layout

- 1. Click Configure on the Alarm Viewer menu bar.
- 2. Select Count Layout...

The Alarm Count Configuration dialog box appears.

3. Select the Layout tab.

The Layout tab displays the current selections.

Alarm Count Configuration	×
Layout Colors Fonts	
Position	Orientation
Center Count	C Vertical
Fields	
⊠ Count ⊠ Date ⊠ Time	Move Up Move Down
OK Cancel	Apply Help

4. Do one of the following in the Position box:

Action	For Position
Clear both check boxes	Bottom left-hand corner of the Alarm Viewer.
Check Alarm at Top of Screen	Upper left-hand corner of the Alarm Viewer.
Check both check boxes	Centered at the top of the Alarm Viewer.

5. Check one in Orientation box:

Check	Display Fields
Horizontal	Side by side in the order you specify.
Vertical	One on top of the other in the order you specify.

- 6. Check which fields to display in the Fields box. Options include alarm:
 - Count.
 - Date.
 - Time.
- 7. Specify the order in which the information should display as follows.
 - a. Select an information field.
 - b. Click either:
 - Move Up to move the field to the left or
 - Move Down to move the field to the right.

The alarm count information displays during runtime according to your specifications.

Step 3.3. Configure Alarm Count Colors

- 1. Click Configure on the Alarm Viewer menu bar.
- 2. Select Count Layout...

The Alarm Count Configuration dialog box appears.

3. Select the Colors tab.

The Colors tab displays the currently selected colors.

Alarm Count Con	figuration		×
Layout Colors	Fonts		
Unseen Alarm C	Count: 📕	Color	0
Seen Alarm Cou	int: 🔲	Color	
Background:		Color	
OK	Cancel	Apply	Help

4. Click **Color** to the right of any option whose color you want to change.

Option	Changes the Color of the:
Unseen Alarm Count	Alarm count when new alarms are generated and you have not yet viewed them.
Seen Alarm Count	Alarm count after you have viewed the current set of alarms.
Background	Background color for the alarm count display.

A Color palette opens when you click any of the **Color** buttons.



- 5. Select the color you want.
- 6. Click OK.

The color you selected will replace the existing color for the selected option.

Note: Click Define Custom Colors to expand the palette and create additional colors.

Step 3.4. Select the Alarm Count Fonts

- 1. Click Configure on the Alarm Viewer menu bar.
- 2. Select Count Layout...

The Alarm Count Configuration dialog box appears.

3. Select the Fonts tab.

The Fonts tab displays the currently selected fonts and size.

Alarm Count Configuration	×
Layout Colors Fonts	
Count Font	-
Name: MS Sans Serif	
Size: 8	
Font	
Date/Time Font	
Name: MS Sans Serif	
Size: 8	
Font	
OK Cancel Apply Help	

4. Click **Font** in the Count Font box to change the font specifications for the alarm count display.

A Font dialog box opens in which you can make your changes.

Font			? ×
<u>F</u> ont:	Font style:	<u>S</u> ize:	1999 - 19
MS Sans Serif	Bold	8	ОК
MS Sans Serif MS Serif The MT Extra The Rockwell The Rockwell Extra Bold Roman Script	Regular Italic Bold Bold Italic	8 10 12 14 18 24	Cancel
Sample AaBbYyZz			
	Script: Western	•	

- a. Select the Font, Font style and size.
- b. Click OK.

The Fonts tab re-displays.

5. Click **Font** in the Date/time Font box to change the font specifications for the date and time.

A Font dialog box opens in which you can make your changes.

- a. Select the Font, Font style and size.
- b. Click OK.
The Fonts tab re-displays.

Step 4. Select the Stand-alone AMV Alarm List Font and Background Colors

Step 4. Select the Stand-alone AMV Alarm List Font and Background Colors

You can specify the

- Font type, style, and size used for the Alarm List and
- Alarm Viewer background color. This color displays where there are no alarms. The background color for the alarms is selected in the Alarm Class Configuration dialog box.

Steps include:

<u>Step 4.1</u> (page 72)	Select the font type for the alarm list
<u>Step 4.2</u> (page 74)	Select the stand-alone AMVa background color.
<u>Step 4.3</u> (page 75)	Select the button area background color.

Step 4.1. Select the Font Type for the Alarm List

- 1. Click Configure on the Alarm Viewer menu bar.
- 2. Select List Layout...

The Alarm List Configuration dialog box appears.

3. Select the Color and Font tab.

The Color and Font tab displays the currently selected font and size.

	Date/ ime Formal
Fields Font Name: MS Sans Serif Size: 8 Font ackground Color:	Color and Font

4. Click **Font** in the Count Font box to change the font specifications for the alarm count display.

A Font dialog box opens in which you can make your changes.

ont			? ×
<u>F</u> ont:	Font style:	<u>S</u> ize:	
MS Sans Serif	Bold	8	ОК
MS Sans Serif MS Serif The MT Extra The Rockwell The Rockwell Extra Bold Roman Script	Regular Italic Bold Bold Italic	8 10 12 14 18 24	Cancel
	Sample AaBbYyZ	z	
	So <u>r</u> ipt: Western	T	

- 5. Select the Font, Font style and size.
- 6. Click **OK**.

The Color and Fonts tab reappears.

7. Click OK.

When alarms display in the Alarm Viewer the text for the alarm list and field headings will display in the font you specify.

Step 4.2. Select the Stand-alone Alarm Viewer Background Color

- 1. Click Configure on the Alarm Viewer menu bar.
- 2. Select List Layout.

The Alarm List Configuration dialog box appears.

Ala	rm List Configuratio	in		×
	Button Layout	General	Date/Time Format	
	Fields		Lolor and Font	
	Font			
	Name: MS Sans Ser	if		
	Size: 8			
	Font	_		
1	_			
[Background Color:) /		
	Color	,		
\mathbf{i}				
	ОК	Cancel	Apply Help	

3. Select the Color and Font tab.

The Color and Font tab displays the currently selected background color.

4. Click Color.

A Color palette opens.



- 5. Select the color you want.
- 6. Click OK.

The color you selected will replace the existing background color.

Step 4.3. Select the Button Area Background Color

1. Select the Button Layout tab in the Alarm List Configuration dialog box.

The color that displays in the **Background Color** box is the color that currently displays in stand-alone AMV button area.

2. Click Color.

A Color Palette displays.

Color		? ×
<u>B</u> asic colors:		100
		I II I
<u>C</u> ustom colors		
Defi	ne Custom Colo	18 >>
ОК	Cancel	

- 3. Select the color you want to use.
- 4. Click **OK** or **Apply**.

The button area background changes to the color that you selected.

Step 5. Work with the Stand-alone AMV

Step 5. Work with the Stand-alone AMV

The CIMPLICITY Alarm Viewer has several features that enable a stand-alone Alarm Viewer user to report, review and/or save alarms and/or an Alarm Viewer configuration.

Options include:

<u>Option</u> <u>5.1 (page</u> <u>76)</u>	Copy an alarm to another document.
<u>Option</u> <u>5.2 (page</u> <u>77)</u>	Print an Alarm Viewer document.
<u>Option</u> <u>5.3 (page</u> <u>79)</u>	Save an Alarm Viewer file.

Option 5.1. Copy an Alarm to another Document

1. Select the alarm or alarms in the Alarm Viewer that you want to copy.

Note: Hold down the Shift key to select more than one alarm.

2. Do one of the following:

Method 1

Click Edit on the Alarm Viewer menu bar.

Select Copy.

Method 2

Press **Ctrl**+**C** on the keyboard.

- 3. Open the document in which you want to paste the data.
- 4. Press **Ctrl+V** (in almost all applications) on the keyboard.

The data is copied to the new document as text.

Example

Data for Two Alarms Selected in the Alarm Viewer



The Alarms Pasted in Word

TANK_2.LEVEL \$SYSTEM LOW Feb 12 11:29 ALARM N

TANK_2 Level is Lo-2 at 0

S90_575 90-30 LOW Feb 12 11:29 ALARM N

S90_575 is out of range.

Option 5.2. Print a Stand-alone AMV Document

Option 5.2. Print a Stand-alone AMV Document

You can easily preview and print an Alarm Viewer file.

The Alarm Viewer enables you to:

<u>Option</u> <u>5.2.1 (page</u> <u>78)</u>	Preview a document before it is printed.
<u>Option</u> <u>5.2.2 (page</u> <u>78)</u>	Specify the printer and setup.
<u>Option</u> <u>5.2.3 (page</u> <u>79)</u>	Print the document.

Option 5.2.1. Preview Stand-alone AMV Printed Document

1. Open the stand-alone AMV Print Preview window as follows.

Method 1

- a. Click File on the stand-alone AMV menu bar.
- b. Select Print Preview.

Method 2

Press Alt+F+V on the keyboard.

The stand-alone AMV Print Preview window opens when you use either method.

2. Review the print preview using the stand-alone AMV tools:

То	Action		
Zoom in	Right-click the mouse, or		
	Click Zoom in on the toolbar.		
Zoom out	Press Alt and Right-click the mouse, or		
	Click Zoom out on the toolbar.		
Go to the previous page	Click Prev Page on the toolbar		
Go to the next page	Click Next Page on the toolbar		
Display one page	Click One Page . This button is active when two pages are displaying.		
Display two pages	Click Two Pages . This button is active when one page is displaying.		
Print	Click Print.		

Option 5.2.2. Specify the Print Setup for the Stand-alone AMV

Do one of the following.

Method 1

- 1. Click File on the Alarm Viewer menu bar.
- 2. Select Print Setup.

Method 2

Press Alt+F+R on the keyboard.

The Print Setup dialog box opens when you use either method.

Note: You can also change the printer specifications before you print the document.

Option 5.2.3. Print a Stand-alone AMV Document

Method 1

- 1. Click File on the stand-alone AMV menu bar.
- 2. Select Print.

Method 2

Click **Print** in the stand-alone AMV Print Preview window.

Method 3

Press Crtl+P on the keyboard.

The Print dialog box opens when you use any method. You can continue with printing in the same manner as you do with any Windows document.

Option 5.3. Save a Stand-alone AMV File

Option 5.3. Save a Stand-alone AMV File

When you display a configuration that you think you will use again, you can

<u>Option</u> <u>5.3.1 (page</u> <u>80)</u>	Save the original stand-alone AMV file.
<u>Option</u> <u>5.3.2 (page</u> <u>80)</u>	Save a copy of an stand-alone AMV file.

Option 5.3.1. Save the Original Stand-alone AMV File

1. Do one of the following:

Method 1

- a. Click File on the stand-alone AMV menu bar.
- b. Select Save.

Method 2

Double-click the Save button on the stand-alone AMV toolbar.

Method 3

Press **Ctrl+S** on the keyboard.

If the file has been saved previously the saved version is updated.

If the file is being saved for the first time, the Save As dialog box opens.

- 2. Enter a name for the file in the folder where you keep stand-alone AMV files for the project.
- 3. Click Save.

A new stand-alone AMV file is saved for future use.

Note: By default, stand-alone AMV documents are placed in the Screens directory for the CIMPLICITY project that is being used. However, you can select another directory.

Option 5.3.2. Save a Copy of Stand-alone AMV File

- 1. Click File on the Alarm Viewer menu bar.
- 2. Select Save As...

The Save As dialog box opens.

- 3. Enter a name for the file in the folder where you keep stand-alone AMV files for the project.
- 4. Click Save.

A copy of the existing stand-alone AMV file is saved for future use.

Step 6. Specify how a Stand-alone AMV File will Connect to a Project

Step 6. Specify how a Stand-alone AMV File will Connect to a Project

When you create a stand-alone AMV file you need to specify how the stand-alone AMV will determine what project to connect to when the stand-alone AMV file is opened. You make the specification on the General tab in the Alarm List Configuration dialog box.

<u>Step 6.1</u> (page <u>81)</u>	Select the project that will be connected.
<u>Step 6.2</u> (page 83)	Specify the placement of the stand-alone AMV window.
<u>Step 6.3</u> (page <u>84)</u>	(Optional) Install a shortcut of the stand-alone AMV file.

Step 6.1. Select the Project that will be Connected

- 1. Click Configure on the stand-alone AMV menu bar.
- 2. Select List Layout...

The Alarm List Configuration dialog box opens.

3. Select the General tab.

The General tab displays the current selection.

n List Configuration	
Fields	Color and Font
Rutron Layout General	Date/Time Format
Cornection	
C Connect to <u>L</u> ocal Project	
Browse for system when connecting	ng
C Seect Project Now	
System	
Window Flacement	
🗖 Always On Top	
En In Top on new Alarms	
	<u></u>
OK Carcel	epp V Hep



- 4. Select one of the following connection types to determine how the stand-alone AMV will connect to a project.
 - Connection 1.
 - Connection 2.
 - Connection 3.

Connection 1

Check **Connect to Local Project** if you want the stand-alone AMV file to automatically display alarms for the project, in which the stand-alone AMV file is located, when the project is running.

If the local project is running, the alarms display immediately when the file is opened.

Connection 2

Check Browse for system when connecting if you want the user to select the connected project.

When a user opens the AMV file a dialog box appears with a drop down list of projects in the system. If the selected project is running and the user has access, its alarms appear in the Alarm Viewer.

Select Project		
Project : CIMPDEMO		.
ОК	Cancel	

Connection 3

Check **Select Project Now** if you want the stand-alone AMV to connect to a specific project that is not the project in which the AMV file is located.



When a user opens the AMV file, alarms for the selected project appear, if the project is running.

Note: In all instances, when no project is running, a Select CIMPLICITYâ Project dialog box appears. The user selects which project to start and the alarms for that project will display.

Step 6.2. Specify the Placement of an Alarm Viewer Window

- 1. Click Configure on the stand-alone AMV menu bar.
- 2. Select List Layout...

The Alarm List Configuration window opens.

3. Select the General tab.

The General tab displays the current selection.

in List Configurati	ion	
Fields		Color and Font
Button Layout	General	Date/Time Formal
Connection		
C Connect to Loca	al Project	
Browse lor syste	m when connect	ing
C Select Project N	ow	
Sustem		
Window Placement		
Always On Top		
E Pop to Top on n	ew Alarms	
Pop to Top on n	ew Alarms	
Eop to Top on n	ew Alarms	
Eop to Top on n	ew Alarms	
Pop to Top on n	ew Alarms	
Pop to Top on n	iew Alarms	

Select if window will remain on top of other windows or pop up when a new alarm appears.

4. Check either:

Check Box	The stand-alone AMV will:
Always on Top	Always be on top, no matter what other windows are open.
Pop to Top on new Alarms	Pop to the top when new alarms are received.

5. Click OK.

The stand-alone AMV will be positioned according to your specifications.

Step 6.3. Install a Shortcut of a Stand-alone AMV File

- 1. Click File on the stand-alone AMV menu bar..
- 2. Select Install.
 - A Create Shortcut dialog box opens.

Create Shortcut	×
All Users	
New <u>F</u> older	
OK Cancel	<u>H</u> elp

- 3. Select the folder in which the shortcut should appear, e.g., Desktop.
- 4. Click OK.

The shortcut is created where	you specified, e.g.	S90ALARMS
The shorteat is created where	you specifica, e.g.	

If you open the shortcut when the project is not running a Select CIMPLICITY Project dialog box opens to let you easily start the project.

! Important: Specify how the Alarm Viewer file should connect to a CIMPLICITY project when the shortcut is double-clicked. If one or more projects are running, your specification will guide the project selection. You do this on the General tab in the Alarm List

i **Tip:** : Select **Browse for system when connecting** on the General tab in the Alarm List Configuration dialog box to make sure a user can connect to a project no matter where the shortcut is placed.

Step 7. Configure the Alarm Viewer Fields and Buttons.

The stand-alone AMV <u>fields and buttons configuration (*page 86*)</u> is similar to configuration for the AMV Control.

Step 8. Exit the Stand-alone AMV

1. Do one of the following.

Method 1

a. Click File on the stand-alone AMV menu bar.b. Select Exit.

Method 2

Press Alt+F+X on the keyboard.

Method 3

Click the **Window Close** button **X**.

If you made unsaved changes, a stand-alone AMV message box appears asking you if you want to save them.

- 2. Click either:
 - a. **Yes** to save the changes, or
 - b. No to discard the changes, or
 - c. Cancel to return to the stand-alone AMV .

The stand-alone AMV will close or re-appear based on your selection.

Alarm Viewer Fields and Buttons Configuration

Alarm Viewer Fields and Buttons Configuration

The core configuration for both the stand-alone AMV and AMV OCX is the fields and buttons.

<u>Step 1</u> <u>(page</u> <u>86)</u>	Select the AMV Control/AMV alarm list fields.
<u>Step 2</u> (<u>page</u> <u>94)</u>	Select the button display for the AMV Control/AMV.
<u>Step 3</u> (page 105)	Work with AMV Control/AMV buttons.

Step 1. Select the AMV Control/Stand-alone AMV Alarm List Fields

Step 1. Select the AMV Control/Stand-alone AMV Alarm List Fields

Use the Alarm List Configuration dialog box to configure the Alarm List for the Static Alarm list view and the Dynamic Alarm list view.

Steps include:

<u>Step 1.1</u> (page <u>87)</u>	Display the Fields tab (in the AMV Control/AMV Properties dialog box).
<u>Step 1.2</u> (page <u>88)</u>	Select fields for static view.
<u>Step 1.3</u> (page 89)	Select fields for dynamic view.
<u>Step 1.4</u> (page 90)	Configure the field display order for each view.
<u>Step 1.5</u> (page 90)	Specify field column widths and titles.
<u>Step 1.6</u> <u>(page</u> <u>91)</u>	Set the alarm message date/time format.

Step 1.1. Display the Fields Tab

Step 1.1. Display the Fields Tab

How you display the Fields tab depends on whether you are working in the AMV Control or the AMV.

Option <u>1.1.1 (page</u> <u>87)</u>	Display the Fields tab in the CIMPLICITY AMV Control Properties dialog box (AMV Object).
<u>Option</u> <u>1.1.2 (page</u> <u>88)</u>	Display the Fields tab in the Alarm List Configuration dialog box (stand-alone Alarm Viewer).

Option 1.1.1. Display the Fields Tab in the CIMPLICITY AMV Control Properties Dialog Box

1. Double-click the AMV Control.

The CIMPLICITY AMV Control Properties dialog box opens.

2. Select the Fields tab.

The list of fields you configure will depend on whether you are configuring a static or dynamic alarm list.

Note: If any field titles have been modified, the modified title appears in parentheses to the right of the field name. For example, (**Ack**), the new name, appears to the right of **Ack State**, the previous name.

Option 1.1.2. Display the Fields tab in the Alarm List Configuration Dialog Box

- 1. Click Configure on the Alarm Viewer menu bar.
- 2. Select List Layout...

The Alarm List Configuration dialog box appears.

- 3. Select the Fields tab.
- 4. Check **Display Field Titles** if you want the titles to display in the Alarm Viewer in either static or dynamic view.

The list of fields you configure will depend on whether you are configuring a static or dynamic alarm list.

Note: If any field titles have been modified, the modified title appears in parentheses to the right of the field name. For example, (Ack) appears to the right of Ack State.

Step 1.2. Select Fields for Static View

1. Check **Static** in the Display box on the Fields tab.

The available fields display in the Fields box. The fields describe specifications made for the point, e.g., Resource ID, as well as current alarm status, e.g., State.

	1 Comment 1 Stacked 1 Project Name 1 Alarm ID 1 Resource ID 1 Class Mode Static Dynamic	Fields: I I Stacked I Project Name I Alarm ID I Alarm ID I Resource ID I Class I Date I Time I State I Ack State I State I State I Display F Display Field Titles
Α	CIMPLICITY A	AMV Control Properties dialog box
В	Alarm List Cor	nfiguration dialog box

2. Check the fields you want displayed.

Step 1.3. Select Fields for Dynamic View

1. Check **Dynamic** in the Display box on the fields tab.

The available fields display in the Fields box. The fields describe specifications made for the point, e.g., Resource ID, as well as current alarm status, e.g. State.



B Alarm List Configuration dialog box

2. Select the fields you want displayed.

Step 1.4. Configure the Field Display Order for Each View

1. Select a field when you are in either mode.

The field's static to other fields determines which buttons (to the right of the Fields box) are enabled.

2. Click the buttons according to where you want the field to display in the Alarm Viewer. The buttons that are enabled might change as the field moves.

Button	Each Click Moves the Field
Position Left	One column left.
Position Right	One column right.
Row Up	 Up one row, to the furthest left position in an alarm's message area. Note: The button will only be active if there is a row above the one in which the field is placed. Example You: Start with two rows for each alarm message. Select Alarm ID, which currently is in the second row. Click Row Up once. The Alarm ID appears in the first row, furthest left position of each alarm's message. Row Up is no longer active when Alarm ID is selected.
Row Down	 Down a row in the message. The field will be placed at the start of the message row. (The maximum row number is 10.) Example You Start with two rows for each alarm message. Select Alarm ID, which currently is in the first row. Click Row Down twice. The Alarm ID appears in the third row of each alarm's message.

Step 1.5. Specify Field Column Widths and Titles

Columns in the AMV Control/AMV adhere to the width and display the titles that you specify for the fields that are in the first row. You can associate a title and length with any field that will be used whenever that field is positioned in the first row of the alarm message.

Note: Column titles appear in the AMV Control only if you check **Field titles** on the Sort/ Display tab in the CIMPLICITY AMV Control Properties dialog box.

- 1. Select a field in either Static or dynamic view.
- 2. Click Modify...

The Field Properties dialog box for the select field opens.

Field Properties	×
Length: 40	ОК
<u>T</u> itle: Alarm ID	Cancel

- 3. Change the maximum field length in for the Alarm Viewer in the **Length** field if it should be different from the current length that displays.
- 4. Enter a new title for the Alarm Viewer field in the **Title** Field if it should be different from the current title that displays.

If you change the title of a field, its original title appears next to the check box in the Fields list, and the modified title appears to the right in parentheses.

- 5. Click either:
 - **OK** to accept the changes.
 - Cancel to retain the current settings.

The Alarm List Configuration dialog box appears. The field is changed (or not) according to your specifications.

i **Tip:** Field length is based on the average size of characters in the font you have chosen. Thus, a length of **6** may be sufficient to display the string **IIIIII**, but may be too short to display **WWWWWW**. To ensure that the length is always adequate, select a fixed pitch font (such as Courier New) for your alarm page display.

Step 1.6. Set the Alarm Message Date/Time Format

1. Do one of the following:

For the AMV Control

Select the Date Format tab in the CIMPLICITY AMV Control Properties dialog box.

For the stand-alone AMV

Select the Date/Time Format tab in the Alarm List configuration dialog box.

The Date Format or Date/Time Format tab displays a sample of the current format selection.

- 2. Either:
 - Select one of the date format options in the Format list or
 - Construct your own format in the (Date) Format field.

Acceptable entries are:

m	Numeric month with no leading zero.
mm	Numeric month with leading zero.
mmm	Short text month.
mmmm	Long Text month.
d	Numeric day with no leading zero.
dd	Numeric day with leading zero.
ddd	Short text day of the week.
dddd	Long text day of the week.
у	Last two digits of year. For digits 00 through 09, only the last digit is displayed.
уу	Last two digits of year. For digits 00 through 09, both digits are displayed.
уууу	All four digits of year

You can use spaces, dashes, slashes or any other delimiter of your choice to separate the date fields.

Example

If you enter dddd dd mmmm yyyy, the sample date will be Saturday 05 March 1994.

3. Either:

- Select one of the time format options in the Time list or
- Construct your own format in the (Time) Format field.

Acceptable entries are:

н	Hours based on a twelve-hour clock with no leading zero.
нн	Hours based on a twelve hour clock with leading zero.
ннн	Hours based on a 24-hour clock with no leading zero.
нннн	Hours based on a 24-hour clock with leading zero.
м	Minutes with no leading zero.
мм	Minutes with leading zero.
S	Seconds with no leading zero.
SS	Seconds with leading zero.
тт	Hundredths of seconds with leading zeros.
Т	Thousandths of seconds with no leading zero.

ТТТ	Thousandths of seconds with leading zeros.
P, A, p , or a	AM/PM indicator.

You can use colons, spaces or any other delimiter of your choice to separate the date fields.

Example

If you enter **HHHH:MM:SS:TTT p**, the sample time will be **13:05:06:085 PM**.

AMV Alarm Fields

Each of the AMV Alarm fields that can appear as columns in the AMV OCX Control or AMV Stand-alone alarm viewer are listed below.

Field/ Column	Description
Comment	The number of operator comments on an alarm.
Stacked	The number of retained occurrences for an alarm that is generated more than once before an operator deletes it. When the designated number is reached, the system deletes the oldest alarm occurrence as each new alarm is generated.
Project Name	Name of the CIMPLICITY project generating the alarm.
Alarm ID	Identifier of the alarm.
Resource ID	Identifier of the factory resource identifier for the alarm, used to control its routing.
Class	Class of the alarm.
Date	Alarm generation date.
Time	In the stand-alone Alarm Viewer, the time is the: Alarm generation time. In the Alarm Viewer OCX, the time is either the: Alarm generation time Alarm generation time and Alarm cleared (Normal) time Tip: Select what time will display on the <u>Display (page 46)</u> tab in the CIMPLICITY AMV Control Properties dialog box.
State	Current State of the alarm.
Ack State (Ack)	Boolean value that indicates whether an alarm has been acknowledged or not.
Reference	Reference identifier for the alarm, used to distinguish to identical alarms.
Severity	A number that indicates the importance of the alarm; the higher the Severity the more severe the state. CIMPLICITY treats more severe alarms with a higher priority.

Field/ Column		Description	
Category	(AMV Control Properties only) The name of the general category for the generated alarm: Level, Discrete, or System.		
	 Level is generated by non Boolean poi Discrete is generated by Boolean poin System is generated by all alarms not 	nt alarms. t alarms. generated by points.	
Condition	(AMV Control Properties only) The condition for the generated alarm's Category. Each Category currently has a Condition that qualifies the type of alarm.		
	Condition	Generated for	
	Level	Level alarms	
	Trip	Discrete alarms	
	System	System alarms	
Subcondition	(AMV Control Properties only) A specific Subcondition that further qualifies the alarm's Condition. For Level and Trip conditions, the Subcondition column displays a state string associated with the alarm's State. For the System condition, this column displays "System."		
Message	The alarm Message. This message contains the fixed text for the alarm and optional information for the run-time parameters.		
	This field normally appears as the first field in the list area below the column headers in the AMV.		
Description	The description of the alarm.		
	For Point Alarms, this is the Point Description	on.	
	For Event Alarms, this is the Alarm Definition Description.		

Step 2. Select the Button Display for the AMV Control or Stand-alone AMV

Step 2. Select the Button Display for the AMV Control or Stand-alone AMV

The Alarm Viewer provides a user with several buttons to deal with alarms. For example, a user can acknowledge, reset or delete an alarm, if you select to display the button for those actions.

Dynamic View updates alarms whenever there is a change.

Dynamic view buttons:

- In the AMV Control, function the same as they do in static view.
- In the AMV, enable you to filter the list of alarms and toggle back to Static View.

Static View updates alarms when an operator clicks the **Refresh** button.

Static view buttons provide the user with the capability to respond to alarms.

- You can select which buttons you want to display and, as a result, control the actions a user can take when an alarm displays.
- You do the configuration on the Button Layout tab in the Alarm List Configuration dialog box.

Steps for handling buttons include:

<u>Step 2.1</u> (page 95)	Display the Buttons or Button Layout tab (for AMV Control or AMV).
<u>Step 2.2</u> (page 97)	Select buttons for static view.
<u>Step 2.3</u> (page 98)	Select buttons for dynamic view.
<u>Step 2.4</u> (page <u>98)</u>	Create custom buttons.
<u>Step 2.5</u> (page 103)	Configure the button display order for each view.
<u>Step 2.6</u> (page 103)	Specify the button caption, description and command string.

Step 2.1. Display the Buttons or Button Layout Tab

Step 2.1. Display the Buttons or Button Layout Tab

Whether you display the Buttons tab or the Button Layout tab depends on whether you are working in the AMV Control or the stand-alone AMV.

Option 2.1.1 (page <u>96)</u>	AMV Control.
	Display the Buttons tab in the CIMPLICITY AMV Control Properties dialog box.
<u>Option</u> 2.1.2 (page <u>96)</u>	Stand-alone Alarm Viewer.
	Display the Button Layout tab in the Alarm List Configuration dialog box

Option 2.1.1. Display the Buttons Tab in the CIMPLICITY AMV Control Properties Dialog Box

- 1. Right-click the Alarm Viewer control.
- 2. Select CIMPLICITY AMV Control Object>Properties.

The CIMPLICITY AMV Control Properties dialog box opens.

3. Select the Button Layout tab.

The Buttons tab initially displays the buttons selected for the static view.

CIMPLICITY AMV Control Properties		×
Count Layout Date Format Fields Buttons Projects	Fonts Colors Display Sorting	
☐ 1 Toggle ☐ 1 Refresh ☐ 1 Setup ☐ 1 Ack ☐ 1 Reset ☐ 1 Delete	Position Left Position Bight Row Up Row Down	
© Static © Dynamic OK Cancel	Modify	

Option 2.1.2. Display the Button Layout Tab in the Alarm List Configuration Dialog Box

- 1. Click Configure on the Alarm Viewer menu bar.
- 2. Select List Layout...

The Alarm List Configuration dialog box appears.

3. Select the Button Layout tab.

The Button Layout tab initially displays the buttons selected for the static view.

Alarm List Configura	tion		×
Fields Button Layout Buttons:	 General	Color and Date	d Font /Time Format
1 Help 1 Setup 1 Refresh 1 View Stack 1 View Stack 1 Toggle 2 Ack 2 Ack 2 Delete 2 Ack and Re	eset		Position Left Position <u>Right Row Up Row Down Modify</u>
Display Static Dynamic	Background Colo	r. 🗖	
ОК	Cancel	Apply	Help

Step 2.2. Select Buttons for Static View

1. Check **Static** in the Display box on the Button Layout tab.

The available buttons display in the Buttons box.

Button List for Static View		
Fields Buttor	ns Projec	
☐ 1 CimView Screen ⊠ 2 Toggle ⊠ 2 Setup	Buttons:	
2 Refresh 2 Help 2 View Stack Mode Static © Static Dgnamic	 1 Help 1 Setup 1 Refresh 1 View Stack 1 Comments 1 Toggle 2 Ack 	
CIMPLICITY AMV Control Properties dialog box Alarm List Configuration dialog box	2 Reset 2 Delete 2 Ack and Reset Display Background Color:	
	C Dynamic	

2. Check the buttons you want users to display.

Step 2.3. Select Buttons for Dynamic View

1. Check **Dynamic** in the Display box on the Button Layout tab.

The available buttons display in the Buttons box.

Note: The AMV Control has all buttons available for dynamic view; the AMV has **Toggle** and **Setup** only.

Button List for Static View

Fields Butto	ns Projec
 ☐ 1 Ack ☐ 1 Reset ☐ 1 Delete ☐ 1 Ack and Reset ☐ 1 Ack First ☐ 1 Ack All Mode C Static ♥ Dynamic 	Buttons: I Toggle I Setup
CIMPLICITY AMV Control Properties dialog box	
Alarm List Configuration dialog box	Static Color

2. Check the buttons you want users to display.

Once you have selected the buttons for display in the alarm list, you can configure which button row the button will be placed in, where in the row it will be placed, and what caption will be displayed.

Step 2.4. Create Custom Buttons

Step 2.4. Create Custom Buttons

Both the stand-alone alarm viewer and AMV control provide the option to create custom buttons.

There are two types of custom buttons that can be added:

- Stand-alone AMV and AMV control custom button.
- AMV control only CustomButton event.

Stand-alone AMV and AMV control custom button

Custom buttons are available in both the stand-alone Alarm Viewer and AMV Control.

A custom button additional functionality to make sure the Alarm Viewer meets your system's requirements. Custom buttons can be configured to trigger command strings that perform several functions, such as run a program, create a set of long term notes that describe the historical conditions surrounding past alarm conditions in a factory or, for the AMV Control, fire an ActiveX event.

- 1. Select a Custom<N> button to customize.
- 2. Click Modify....

The Button Caption dialog box opens for the selected custom button.

Options are as follows.

Button Caption		
Button caption:	ОК	
Action	Cancel	
Description:		
Execute External Custom Command		
Command string:		
%TIME		
O Run program 💿 Fire ActiveX event		

Field	Description
Button Caption	Caption that will display on the button
Description	Brief description of the button purpose.
Command string	Command string that will be executed when the button is clicked. Note: Check Run program in the AMV Control Button Caption dialog box.
Run program	Check to run the command string when the button is clicked.
Fire ActiveX event	(Alarm Viewer Control only) Use a <u>CustomButton (page 131)</u> event.

3. Click OK.

The configured action will occur when a user clicks the customized button in the Alarm Viewer.

Parameters for Alarm Viewers

Parameters for substitution in Alarm Viewers

You may include any of the following parameters, which will be substituted with characteristics of the selected alarm, in your command:

Parameter	Value
%ACK	Y or N, if selected alarm is acknowledged
%CATEGORY	OPC Category (page 93): Level, Discrete, or System (AMV Control only)
%CONDITION	OPC Condition (page 93): Level, Trip, or System (AMV Control only)
%DATETIME	Alarm Generation date and time
%DT	same as %DATETIME
%DATE	Alarm Generation date
%TIME	Alarm Generation time
%ID	Alarm Identifier of the selected alarm
%CLASS	Alarm class of the selected alarm
%RESOURCE	Factory resource of the selected alarm
%RES	same as %RESOURCE
%REFERENCE	Alarm reference identifier for the selected alarm
%REF	same as %REFERENCE
%MESSAGE	Alarm message for the selected alarm
%MSG	same as %MESSAGE
%SCREEN	(Alarm Viewer Control only) Provide access to the screen associated with an alarm so the user can run CimView using that screen and any additional options.
%STATE	Current alarm state of the selected alarm
%SUB CONDITION	OPC <u>Subcondition (page 93)</u> (AMV Control only).

Parameter for a selected alarm

(AMV Control only) The following parameter provides a user access to other CimView screens.

Parameter	Value
%SCREEN	Provide access to the screen associated with an alarm so that the user can run CimView using that screen and any additional options they wish.

Parameters in Alarm Viewer that don't require a selected alarm

The following additional parameters do not require the user to select an alarm:

Parameter	Value			
%%	An embedded percent sign			
%USER	User ID of the user invoking the command			
%PRODUCT	CIMPLICITY distribution directory			
%CIM	same as %PRODUCT			
%DIRECTORY	CIMPLICITY project directory			
%DIR	same as %DIRECTORY			
%PROJECT	CIMPLICITY project name			
%PRJ	same as %PROJECT			

Example. Create a Run a Message Program Custom Button

- 1. Open the Basic Control Engine Program
- 2. Enter the following script in the CIMPLICITY Program Editor.

Sub Main()

MsgBox Command\$

End Sub

3. Create the script as a program in the project's scripts directory.

Example

C:\Projects\ECimp\Scripts\GetMessage.exe.

- 4. Open a <u>Button Caption (*page 98*)</u> dialog box for a Custom Button in either of the Alarm Viewers.
- 5. Enter the following.

Button Caption	×
Button caption:	ОК
Message	Cancel
Description:	
Alarm message	
Command string:	
c:\Projects\ECIMP\Scripts\GetMessage.ex	e %Message
Run program O Fire ActiveX event	

Field	Enter
Button caption	Message.
Description	Alarm message
Command string	\ <project path="">\<project name="">\Scripts\GetMessage.exe %Message Where <project path=""> is the full path to the project. <project name=""> is the project's name %Message is the Alarm Viewer Message (page 99) parameter.</project></project></project></project>

- 6. Check Run program.
- 7. Click OK.

A Message button is added to the Button bar.



8. Test the button in runtime.

The message associated with the selected alarm displays in a message box.

8	larm	Viewer.cir	n						- 🗆 ×	
File	View	Help								
é	; @	• № ±.	. 1 🖿							
Time	Ack	Alarm ID		State	Message				Í	
5:30) N	DB_CONN	_DOWN	ALARM	The process I	BasicS	cript			×
5:30) N	DB_CONN	_DOWN	ALARM	The process I					
4:41	N	PROCESS	_VISCOSIT	YNORMAL	Process Visco	CALL	SUPER\	/ISOR: T/	ANK7501	5000, Hi-2
9.4		TANKOLESS	_TEMPERA	AL ARM	CALL SUDERA	C		OK		
Α	N N	TANK750		ALARM ALARM	CALL SUPERV	\mathbf{U}		UK		
C.C.I	7 N	TANK_LE	VEL	ALARM	Storage tank I	OW Leve			MI	
8 Fe	b 9 1 5	30	Toggle E	Messag	e Ack	Delete	Reset			
For	Help, p	ress F1				[
									7 444	1
Α	Se	lect an	alarm II	D.						
в	Cli	ck Mes	sage.							

A Basic Script message box displays the message specified for the alarm in the Alarm Message field.

Example. Use a Custom Button to Create a Set of Long-term Notes

1. Select a Custom<N> button to customize.

Example

С

🛛 2 Custom1

2. Enter the following.



Field	Enter
Button caption	Notes.
Description	Edit Alarm notes for a selected alarm.
Command string	NOTEPAD %DIR\NOTES\%ID.TXT

3. Click OK.

When a user clicks this button, a new Notepad will be executed for a file in the Notes sub-directory of the CIMPLICITY project directory. The Alarm ID of the selected alarm determines the filename.

Step 2.5. Configure the Button Display Order for each View

1. Select a button in either view.

The buttons to the right of the Buttons box activate based on what position the button is currently in.

2. Click the following buttons according to where you want the button to display in the Alarm Viewer.

Button	Each Click Moves the Button
Position Left	One button left.
Position Right	One button right.
Row Up	Up one row. The button will only be active if there is a row above the one in which the button is placed.
Row Down	Down one row.

Step 2.6. Specify the Button Caption, Description and Command String

- 1. Select a button in the list of buttons.
- 2. Click Modify....

The Button Caption dialog box opens.

If you are modifying a CIMPLICITY AMV Control or stand-alone AMV button, the Button Caption dialog displays the default entries in the **Button Caption** and **Description** field. The **Command String** field is dimmed.

×
<u>0</u> K
Cancel

If you are creating a custom button all three fields are available for entry.



- 3. Enter the new caption that will appear on the button in the **Button Caption** field. You may enter up to 100 characters.
- 4. Enter a description in the **Description** field.
- 5. (For a custom button) Enter the command string, in the **Command String** field, that you want to be executed when the button is clicked.
- 6. Click **OK**.

The new button name appears in parentheses next to the original button name or Custom 1, 2, 3, etc.

If the buttons are selected to display, the new names appear on them immediately.

2 Delete (Remove) Remove

Step 3. Work with the AMV Control/Stand-alone AMV Buttons

Step 3. Work with the AMV Control/Stand-alone AMV Buttons

<u>Option</u> <u>3.1 (page</u> <u>105)</u>	Setup button: Configure AMV Control/Stand-alone AMV Alarm setups. Note: And Setup icon in the Workbench.
<u>Option</u> <u>3.2 (page</u> <u>120)</u>	Ack and/or Reset buttons: Acknowledge and Reset alarms.
<u>Option</u> <u>3.3 (page</u> <u>123)</u>	Help button: Using customized help.
<u>Option</u> <u>3.4 (page</u> <u>124)</u>	Refresh button: Refresh the Alarm Viewer list.
<u>Option</u> <u>3.5 (page</u> <u>124)</u>	Toggle button: Toggle between Alarm Viewer static and dynamic view.
<u>Option</u> <u>3.6 (page</u> <u>125)</u>	View Stack button: Viewing the alarm stack.
<u>Option</u> <u>3.7 (page</u> <u>126)</u>	Comments button: View alarm comments.
<u>Option</u> <u>3.8 (page</u> <u>129)</u>	CimView screen button: View an alarm's CimView screen.
<u>Option</u> <u>3.9 (page</u> <u>130)</u>	Delete button: Delete an alarm.

Option 3.1. Setup Button: Configure AMV Control/Stand-alone AMV Alarm Setups

Option 3.1. Setup Button: Configure AMV Control/Stand-alone AMV Alarm Setups

Normally, all alarms for the roles assigned to your CIMPLICITY User ID are displayed on the Alarm Viewer screen.

Alarm filtering, which is configured in a Modify Setup dialog box, enables a user to filter the list by displaying certain subsets of alarms.

Authorized users can open the Modify Setup dialog box through the Workbench, the Alarm Viewer control or the Alarm Viewer. The procedure to open the Modify Setup dialog box and its setup options are slightly different based on the application through which it is opened.

Steps to open the Modify Setup dialog box and create alarm filter setups include:

<u>Step 3.1.1</u> (page 106)	Select a filter to load or to modify.
<u>Step 3.1.2</u> (page 109)	Modify the Alarm Viewer setup class list.
<u>Step 3.1.3</u> (page 109)	Modify the Alarm Viewer setup resource list.
<u>Step 3.1.4</u> (page <u>110)</u>	Configure the AMV setup time, state and sort.
<u>Step 3.1.5</u> <u>(page</u> <u>115)</u>	Modify the Alarm Viewer Setup String Filters
<u>Step 3.1.6</u> <u>(page</u> <u>116)</u>	Create a new alarm filter setup.
<u>Step 3.1.7</u> <u>(page</u> <u>119)</u>	Delete an alarm filter setup.
<u>Step 3.1.8</u> (page <u>119)</u>	Select the default alarm filter setup.

Note: Only users who have been granted the Modify Alarm Setups privilege in the Role Properties dialog box can save a new setup, load a different setup or make the current setup the default.

Step 3.1.1. Select a Filter Setup to Load or to Modify

- Alarm Viewer Control Setup button.
- Alarm Viewer Setup button.
- Workbench Alarm Setups icon (modify a setup)
- Alarm Sound Manager Setup field

Alarm Viewer Control Setup Button

1. Click **Setup** in an Alarm Viewer:

The Alarm Setups dialog box opens.

2. Select a setup to modify as follows.

Alarm Se	etups		×
A Project:	PROFCIMP	-	Done
B Setup:	REGION4		Save
	< <unfiltered>> REGION3</unfiltered>		C Load
	TANKS		Delete
			Make Default
			G Modify Current
	,		

А	Select the project to which the Alarm Viewer control will be connected.		
В	Select the alarm setup that will be loaded or modified. The setup name displays in the Setup field.		
С	Click one of the following buttons.		
	Load	The setup loads in the Alarm Viewer. The Alarm List is re-filtered and re-displayed.	
	Modify Current	The Modify Setup dialog box opens. Continue to Step 3.1.2 (page 109).	

Alarm Viewer Setup Button

3. Click **Setup** in an Alarm Viewer:

The Alarm Setups dialog box opens.

4. Select a setup to modify as follows.



А	Select the alarm	setup that will be loaded or modified. The setup name displays in the Setup field.
В	Click one of the following buttons.	
	Load	The setup loads in the Alarm Viewer. The Alarm List is re-filtered and re-displayed.
Modify Current The Modify Setup dialog box opens. Continue to <u>Step 3.1.2 (page 109)</u>.

Workbench Alarm Setups Icon (Modify a Setup)

Note: An authorized user can open a Modify Setup dialog box to modify an existing setup. The project does not have to run to open the Modify Setup dialog box through the Workbench.

- 5. Select a Setup ID in the Workbench right-pane.
- 6. Do one of the following.



A	Click Edit>Properties on the Workbench menu bar.			
В	Click the Properties button	on the Workbench toolbar.		
С	In the Workbench left pane):		
	a. Right-click Alarm Setups . b. Select Properties on the Popup menu.			
D	In the Workbench right pane:			
	Either Or			
	Double click the Setup IDa. Right-click the Setup ID.b. Select Properties on the Popup menu.			
E	Press Alt+Enter on the keyboard.			

7. Right-click Alarm Setups.

- 8. Select Properties on the Popup menu.
- 9. Right-click the Setup ID.

10. Select Properties on the Popup menu.

Step 3.1.2. Modify the Alarm Viewer Setup Class List

The Classes tab displays the currently available and selected classes.

Select the Classes tab and do the following.

Modify S	etup					×
Classes	Resources	Time and	State Filter	String Filters		
	YS Point GH High W Low I ED Mediu	Mgmt Alam Priority Alam Priority Alam Im Priority A	ns ms Narms		<u>A</u> dd All <u>R</u> emove All	
	C	K	Cancel	Apply	Help	

А	Do one of the following for each class to include it in/exclude it from the setup.				
	Check	Check Include in the setup.			
	Clear	Exclude from the setup.			
В	(Optional) Click one of the following to make global changes.				
	Add All Selects all classes				
	Remove All De-selects all classes.				
С	Click OK, Cancel or Apply to apply or cancel your changes.				

Step 3.1.3. Modify the Alarm Viewer Setup Resource List

1. Select the Resources tab.

The Resources tab displays the currently available and selected resources.

2. Do the following.

Modify Setup						×
Classes Reso	urces	Time and	d State Filter	String	g Filters	
SMAC_FF	२ २				<u>A</u> dd All	
SYSTEI	M				Hemove All	
	0	K	Cancel		<u>A</u> pply	Help

Α	Do one of the following for each resource to include it in/exclude it from the setup.					
	Check	Include in the setup.				
	Clear	Exclude from the setu	Exclude from the setup.			
В	(Optional) Click one of the following to make global changes.					
	Add All Selects all resources					
	Remove All De-selects all resources.					
С	Click OK, Cancel or Apply to apply or cancel your changes.					

Step 3.1.4. Configure the AMV Setup Time, State and Sort

Step 3.1.4. Configure the AMV Setup Time, State and Sort

Configuration options include:

<u>Option 3.1.4.1</u> (page 110)	(For the AMV Control or <u>Alarm Sound Manager (page 155)</u>) Configure time/state criteria.
Option 3.1.4.2 (page 112)	(For the stand-alone AMV) Configure time/state/sort criteria.

Option 3.1.4.1. AMV Control Setup Time and State

Select the Time and State Filter tab.

- Time and State filter.
- Sorting.

Time and State Filter

Time and state filter options are as follows.

Modify Setup	×
Classes Resources Time and State Filter String Filters	
Filter by time Use Time Filter Select alarms since: Sep 12 2019 11 59 10	
Filter by state State Ack Status ☑ Alarm N ☑ Alarm Y ☑ Normal N	
OK Cancel Apply H	elp

rect 125, 269, 144, 288 <u>(page 112)</u> rect 4, 131, 23, 150 <u>(page 112)</u> rect 6, 49, 25, 68 <u>(page 111)</u>

<u>A</u> <u>(page</u> <u>111)</u>		Filter by time.	
<u>B</u> (page <u>112)</u>		Filter by state.	
<u>C</u> <u>(page</u> <u>112)</u>		Buttons	
A Filter by time			

Check or clear the Use Time filter checkbox to select whether or not alarms will be filtered by time.

Check	The Select alarms since field is enabled and displays the current date and time. Enter the date and time that is the start criteria for displaying alarms as follows.							
	Select alarms since Month Day Year Hour Minutes Seconds							
	Important: Enter hours as 1-23. There is no AM/PM specification. The AMV control displays alarms that were generated starting at the entered date.							
Clear	Alarms will display regardless of when they occurred. Alarms that have not been removed from the list by other means, e.g. acknowledge and reset, display, regardless of when they occurred.							

B Filter by state

Check the options in the Filter by State box to limit the alarms displayed on the Alarm List to only those that occur in the state you select.

The options are:

State	Ack Status	Check to		
Alarm	Ν	Display points in Alarm State that have not been acknowledged.		
Alarm	Y	Display points in Alarm State that have been acknowledged.		
Normal	Ν	Display points that have returned to a normal state but have not been acknowledged.		

C Buttons

Click OK, Cancel or Apply to apply or cancel your changes.

Sorting

Sorting in the AMV control can be selected:

- On the Sorting tab in the CIMPLICITY AMV Control Properties dialog box when the Control is configured.
- By clicking the title bar in any of the columns.

Note: Sorting needs to be permitted in the CIMPLICITY AMV Control Properties dialog box.

Option 3.1.4.2. Modify the Stand-alone AMV Setup Time, State and Sort

Select the Time/State/Sort tab.

Time and state filter options and sort options are as follows.

lasses	Resources	Time/Sta	ate/Sort	
Filter	by Time			
ØU	lse Time Filter			
Selec	ot Alarme Sinc	a: San	19 2019 07 08 21	
Jelev	or Admis Sinc	e. Joep		
-				
Filter	by State		Sort	
S	tate Ack St	atus	by Time	
2 A	Narm N		O by Resource	
ØA	Varm Y		O by State	
	lormal N		O by Class	
				1.1.

rect 125, 269, 144, 288 (*page* rect 4, 131, 23, 150 <u>(*page 114*)</u> rect 6, 49, 25, 68 <u>(*page 113*)</u>

<u>A</u> <u>(page</u> <u>113)</u>		Filter by time.
<u>B</u> <u>(page</u> <u>114)</u>		Filter by state.
<u>C</u> (page <u>114)</u>		Buttons.
<u>D</u> <u>(page</u> <u>114)</u>		Sort.
A	Filte	r by time.

Check or clear the Use Time filter checkbox to select whether or not alarms will be filtered by time.

Check	The Select alarms since field is enabled and displays the current date and time. Enter the date and time that is the start criteria for displaying alarms as follows.						
	Select alarms since Month Day Year Hour Minutes Seconds						
	Important: Enter hours as 1-23. There is no AM/PM specification. The AMV control displays alarms that were generated starting at the entered date.						
Clear	Alarms will display regardless of when they occurred. Alarms that have not been removed from the list by other means, e.g. acknowledge and reset, display, regardless of when they occurred.						

B Filter by state

Check the options in the Filter by State box to limit the alarms displayed on the Alarm List to only those that occur in the state you select.

The options are:

State	Ack Status	Check to
Alarm	Ν	Display points in Alarm State that have not been acknowledged.
Alarm	Y	Display points in Alarm State that have been acknowledged.
Normal	Ν	Display points that have returned to a normal state but have not been acknowledged.

C Sort

Sorting

Select the option in the Sort box to select the primary sort parameter for the Alarm list.

Note: Sort options are not available in the Modify Setup window that is opened through the Workbench. A user who has authority to modify an existing setup must access the Modify Setup window through the Alarm Viewer to change the alarm list.

The sort options are:

Option	Select to Sort Alarms
Class	In the selected classes, alarms are sorted, lowest to highest, in the sort order assigned to each Alarm Class when it was created.
Resource	In the selected resources, alarms are sorted alphabetically, lowest to highest, by Resource ID.
State	According to a combination of their State and Ack Status in the following order: All unacknowledged alarms in Alarm state All unacknowledged alarms in Normal state All acknowledged alarms in Alarm state
Time	(Default) Alarms are arranged according to the time of their occurrence, with the most recent first. The default sort key is Time. If a category other than Time is selected as the primary sort key, the secondary sort key is Time.

D Buttons

Click OK, Cancel or Apply to apply or cancel your changes.

Step 3.1.5. Modify the Alarm Viewer Setup String Filters

You can use string filters to filter alarm IDs, messages, or descriptions using substrings, wildcards, or regular expressions.

Select the **String Filters** tab.

The String Filter options are as follows.

Modify S	etup				×
Classes	Resources	Time an	d State Filter	String Filters	
Alarm <u>I</u>	D filter		Substring	⊖ Wildcard	O Regex
Alarm <u>n</u>	nessage filter		Substring	⊖ Wildcard	Regex
Alarm <u>d</u>	lescription filte	r	Substring	⊖ Wildcard	Regex
]
	C	K	Cancel	Apply	Help

String Filters

Item	Description
Alarm ID filter	Enter the ID of the alarm that you want to filter using one of the string formats described below.
Alarm message filter	Enter the message of the alarm that you want to filter using one of the string formats described below.
Alarm description filter	Enter the description of the alarm that you want to filter using one of the string formats described below.

String Filter Formats

Item	Description
Substring	Enter a substring based on which the alarm filter will be applied.
	Example
	If you wish to display all alarms that contain the substring ABC in their IDs, in the Alarm ID filter box, select the Substring option, and enter ABC.
	All the alarms containing the substring ABC in their IDs will be displayed.

Item	Description		
Wildcard	Enter a string containing a wildcard character based on which the alarm filter will be applied.		
	Example		
	If you wish to display all alarms that contain the string ABC as the first three characters in their message, in the Alarm message filter box, select the Wildcard option, and enter ABC*.		
	All alarms containing the string ABC as the first three characters in their message will be displayed.		
Regex	Enter a string containing a regular expression based on which the alarm filter will be applied. The regular expression grammar supported is ECMAScript.		
	Example		
	If you wish to display all alarms that contain the strings ABC1, ABC2, and ABC3 as their description, in the Alarm description filter box, select the Regex option, and enter ABC[1-3].		
	All alarms containing the strings ABC1, ABC2, and ABC3 as their description will be displayed.		

Step 3.1.6. Create a new Alarm Filter Setup

This task describes how to create a new alarm filter. It mentions the Alarm Viewer Control Setup button, Alarm Viewer Setup button, Workbench Alarm Setups icon, Alarm Sound Manager Setup field, and the Global setup name.

Alarm Viewer Control Setup Button

- 1. Click **Setup** in an Alarm Viewer. The Alarm Setups dialog box opens.
- 2. Create a new setup as follows.



А	Select the project to which the Alarm Viewer control will be connected.
В	Enter a new setup name in the Setup field.
С	Click Modify Current.

```
The Modify Setup dialog box opens. Continue to <u>Step 3.1.2 (page 96)</u>.
```

Alarm Viewer Setup Button

- 3. Click **Setup** in an Alarm Viewer. The Alarm Setups dialog box opens.
- 4. Create a new setup as follows.



А	Enter a new setup name in the Setup field.
В	Click Modify Current.
	The Modify Setup dialog box opens. Continue to <u>Step 3.1.2 (<i>page 109</i>)</u> .

Workbench Alarm Setups Icon

Note: The project does not have to run to open the Modify Setup dialog box through the Workbench.

- 5. Select a Setup ID in the Workbench right-pane.
- 6. Do one of the following.



А	Click File>New>Object on the Workbench menu bar.		
в	Click the New button on the Workbench toolbar.		
С	In the Workbench left pane:		
	Either Or		
	Double click Alarm Setups.	a. Right-click Alarm Setups . b. Select New on the Popup menu.	
D	In the Workbench right pane:		
	a. Right-click the Setup ID. b. Select Properties on the Popup menu.		
Е	a. Press Ctrl+N on the keyboard.		

A New Setup dialog box opens when you use any method.

7. Enter the following.

New Setup			×
Setup ID:	REGION5		ок
User ID:	ADMINISTRATOR	et >	Cancel

Field	Description
Setup ID	A new setup name.
User ID	User who will be associated with the setup. The assigned can modify the setup at any time, whether or not their role has been assigned the Modify alarm setups privilege in the Roles dialog box.

8. Click OK.

The Modify Setup dialog box opens for the new setup.

Alarm Sound Manager Setup Field

An Alarm Setups dialog box can also be opened through the <u>CIMPLICITY© Alarm Sound Manager</u> (*page 155*). This dialog box opens the same Modify Setup dialog box that is opened through the Alarm Viewers or the Workbench.

Global Setup Name

Use the prefix \$ to make the setup global, available to all project users.

Example

Prefix	Setup Name	Description
\$	\$Setup1	The setup is available to all project users.
	Setup1	The setup is available only to the user who configured it.

Step 3.1.7. Delete an Alarm Filter Setup

1. Select the setup name in the list.

The name appears in the **Setup** field.

2. Click Delete.

The setup name is removed from the list.

Note: Any user created Alarm Viewer setup can be deleted. System created setups require the **Modify alarm setups** privilege.

Step 3.1.8. Select the Default Alarm Filter Setup

1. Select the setup in the list that will be the default.

The setup name appears in the **Setup** field.

2. Click Make Default.

The next time the Alarm Viewer file opens the selected setup will be loaded.

One setup in the list is the default setup, which loads when the Alarm Viewer file opens.

When you install CIMPLICITY software, the default setup is **<<UNFILTERED>>**. However, you can choose any setup to be the default.

Note: For the AMV Control, you can also select the default filter in the CIMPLICITY AMV Control Properties dialog box.

Option 3.2. Ack and/or Reset Buttons: Acknowledge and Reset Alarms

Option 3.2. Ack and/or Reset Buttons: Acknowledge and Reset Alarms

Whether or not an operator can (or needs to) acknowledge and/or reset and/or delete alarms depends on a variety of factors including:

- Deletion requirements for each alarm are specified on the Alarm Options tab in the
- Point Properties dialog box or
- Alarm Definition dialog box.
- Automatic actions are specified on the same tabs.
- Manual reset allowed is also specified on the same tabs.
- An operator's deletion privilege is specified on the Privileges tab in the Roles Properties dialog box.

	Butt	on	Description
<u>Option</u> <u>3.2.1 (page</u> <u>121)</u>	Ack (page 121)	Ack	Acknowledge a selected alarm.
<u>Option</u> <u>3.2.2 (page</u> <u>121)</u>	Reset (page 121)	Reset	Reset a selected alarm.
<u>Option</u> <u>3.2.3 (page</u> <u>122)</u>	Ack First (page 122)	Ack First	Acknowledge the first alarm in the list.
<u>Option</u> <u>3.2.4 (page</u> <u>122)</u>	Ack All (page 122)	Ack All	Acknowledge all alarms.
<u>Option</u> <u>3.2.5 (page</u> <u>122)</u>	Ack and Reset (page 122)	Ack and Reset	Acknowledge and reset a selected alarm.

Available buttons include:

How the Alarm Viewer responds to each of the qualified user's actions depends on the specifications made during alarm configuration.

1. Do one of the following, depending on the alarm being configured.

Method 1. Configure a system alarm.

- a. Select **Project>Alarms** in the Workbench left pane.
- b. Double-click the appropriate Alarm ID in the Workbench right pane.

The Alarm Definition dialog box opens.

Method 2. Configure a point alarm.

a. Select **Project> Points** in the Workbench left pane.

b. Double-click the appropriate point ID in the Workbench right pane.

The Point Properties dialog box opens.

- 2. Select the Alarm Options tab.
- 3. Select the options required for the alarm.
- 4. Click OK.

AMV Control/AMV responses may include changing the font color, resetting the Alarm state to Normal or automatically deleting the Alarm ID. The exact response depends on these specifications static to the button that is clicked.

Option 3.2.1. Ack Button: Alarm ID Acknowledged

A user can acknowledge an alarm to inform other users that the alarm has been seen and, if necessary, the condition that set off the alarm is being investigated and worked on.

How the Alarm Viewer responds when a user clicks **Ack**, depends on what was configured on the Alarm Options tab in the Alarm Definition (or Point Properties) dialog box.

On Alarm Options	In Alarm Viewer	Alarm ID	
Reset is required	Reset is not clicked and No auto reset	Font color changes	
	Reset is clicked or Auto reset	Is deleted	
Reset is not required		Is deleted	

Option 3.2.2. Reset Button: Alarm ID Reset

If manual reset is enabled, a user can manually reset an alarm to indicate to the system that the alarm condition is being manually overridden. The alarm will not be triggered again until the situation returns to the configured acceptable range and then goes back out of the acceptable range.

Manual reset is enabled on the Alarm Options tab of the Alarm Definition (or Point Properties) dialog box.

The system automatically resets an alarm if the condition that triggered the alarm returns to within acceptable limits.

How the Alarm Viewer responds when a user clicks **Reset**, depends on what was configured on the Alarm Options tab in the Alarm Definition dialog box.

On Alarm Options	In Alarm Viewer	Alarm ID	
Ack is required	Ack is not clicked and No auto acknowledge	Font color changes	
Ack is required	Ack is clicked or Auto acknowledged	Is deleted	
Ack is not required		Is deleted	

Option 3.2.3. Ack First Button: First Alarm Acknowledged

A user can acknowledge the first alarm in an alarm list.

How the Alarm Viewer responds when a user clicks **Ack First**, depends on what was configured on the Alarm Options tab in the Alarm Definition (or Point Properties) dialog box.

On Alarm Options	In Alarm Viewer	First Alarm ID	
Reset is required	Reset is not clicked and No auto reset	Font color changes	
Reset is required	Reset is clicked or Auto reset	Is deleted	
Reset is not required		Is deleted	

Option 3.2.4. Ack All: All Alarms Acknowledged

A user can acknowledge all the alarms in an alarm list.

How the Alarm Viewer responds when a user clicks **Ack All**, depends on what was configured on the Alarm Options tab in the Alarm Definition (or Point Properties) dialog box.

In Alarm Options	In Alarm Viewer	All Alarm IDs
Reset is required	Reset is not clicked and No auto reset	Font colors change
Reset is required	Reset is clicked or Auto reset	Are deleted
Reset is not required		Are deleted

Option 3.2.5. Ack and Reset: Alarm Acknowledged and Reset

If manual reset is enabled, a user can simultaneously acknowledge and manually reset an alarm.

The alarm will not be triggered again until the situation returns to the configured acceptable range and then goes back out of the acceptable range.

When Ack and Reset is clicked:

How the Alarm Viewer responds when a user clicks **Ack and Reset**, depends on what was configured on the Alarm Options tab in the Alarm Definition (or Point Properties) dialog box.

Manual Reset is not Enabled

On Alarm Options	In Alarm Viewer	Alarm ID
Reset is required	Ack and Reset is clicked	Font color changes
Reset is required	Auto acknowledged and reset	Is deleted
Reset is not required	Ack and Reset is clicked or Auto acknowledged and reset	Is deleted

Manual Reset is Enabled

In Alarm Options	In Alarm Viewer	Alarm ID
Reset is required	Ack and Reset is clicked or Auto Ack and reset	Is deleted
Reset is not required	Ack and Reset is clicked or Auto acknowledged and reset	Is deleted

Option 3.3. Help Button: Using Customized Help

When a user clicks **Help** an alarm help file displays if one was assigned to the Alarm ID on the Alarm tab of the Alarm Definition dialog box.

- 4	Rann Deinnuon Dialog Box. Help File Specifieu	or Alarm viewer neip	
4	larm Definition \$90_700		
ſ	Alarm Alarm Routing Alarm Options		
	Definition		
	Alarm Message: 700 over 125 or under 75		
	Alarm Class: ABLCK >	1 Enter the name of a (text) help file th	hat
	Alarm Limits Alarm Criteria	directory.	iih
	Hi-2: Alarm Type :		
	Hi-1: 125		
	Lo-1: 100	2 The help file displays when Help is	
	Lo-2: 50 Delay Alarm	clicked in the Alarm Viewer for the	
		associated AlaminD.	
I.	Help File: These Maining The Deal	+	
H	Alarm Operator Help		
	Alarm ID: \$90,700	Date:	Nov
٦	Resource ID: 90.30	State:	ALA
	Class: ABLCK	Ack:	N
	Deletion requirement: ACKNOWLEDGED RESET	Reset allowed:	N
	Message: 700 over 125 or under 75	2	
	Contact a supervisor immedi	atelv.	
	The machine needs to be res	et before it can operate.	
	T		
		Uone	

Alarm Definition Dialog Box: Help File Specified for Alarm Viewer Help

Option 3.4. Refresh Button: Refresh the Alarm Viewer List

When the Alarm Viewer is in static view, a user needs to refresh the screen in order to view alarms that have occurred since the last time the screen was refreshed.

The **Refresh** button enables the user to refresh the screen.

Option 3.5. Toggle Button: Toggle Between Alarm Viewer Static and Dynamic View

A user may want to keep the Alarm Viewer in dynamic view in order to see alarms as they occur.

In the Alarm Viewer the user will have to switch to static view in order to deal with the alarm.

The **Toggle** button enables the user to switch back and forth.

When the user clicks:

Toggle in Static View	Dynamic View displays
Toggle in Dynamic View	Static View Displays.

Option 3.6. View Stack Button: Viewing the Alarm Stack

An alarm can be configured so the states it passes through can be kept or stacked.

If the number of states exceeds the maximum number configured for the alarm's stack, the oldest occurrences are eliminated.

Note: The maximum stack number is specified on the Alarm Options tab in the Point ID's Point Properties dialog box.

If an alarm has stacked occurrences, and the **Stacked** field is being displayed, a user will see an asterisk (*) in the **Stacked** field.

When an alarm is deleted, all occurrences of the stacked alarm are deleted.

Example

Т

Asterisk means that the Point ID has stacked alarms.

7	Alarm ID	Resource ID	Class Date	Time	State
U	^ \$90_300	90-30	CDM_MOct 15	14:27	ALAR
1	Tank 300 is in Alarm	state			

To view stacked alarm messages:

1. Click View Stack.

A Stacked Alarm Messages window opens displaying the date, time, state, message, and acknowledged state of each alarm.

_					
S	tacke	d Alarm	Message	8	
			1.1		
	Alarm I	ID: China S	\$90_300		Done
	Resou	rce.ID: _\$	90-30		
	Classi		сом м		
	Date	'Time	State State	Ack	Message
	Oct 1	5 14:27	ALARM	N	Tank 300 is in Alarm state
	Oct 1	514:26	ALARM	N	Tank 300 is in Alarm state
	Oct 1	514:26	ALARM	N	Tank 300 is in Alarm state
	Oct 1	514:25	ALARM	N	Tank 300 is in Alarm state
	Oct 1	514:24	ALARM	- N	Tank 300 is in Alarm state
	Oct 1	5 14:23	ALARM	N	Tank 300 is in Alarm state
	Oct 1	5 14:22	ALARM	Y	Tank 300 is in Alarm state
	Oct 1	5 14:21	ALARM	N	Tank 300 is in Alarm state
	1				

2. Click Done.

The Stacked Alarm Messages window closes. The Alarm Viewer screen reappears.

Comments Button: View Alarm Comments

Option 3.7. Comments Button: View Alarm Comments

A comment is a line of text that can be entered by any user who can view the alarm.

Up to 20 comments can be associated with a current alarm.

If an alarm has comments, and the **Comments** field is being displayed, a user will see a **C** in the **Comments** field.

Example

C means that the alarm for a Point ID has comments.

You can specify that comments will be available for viewing in the Project Properties dialog box. Comments can be:

- Available only while an Alarm ID appears in the Alarm Viewer. When the Alarm ID has been reset, deleted, or automatically removed, the comment ceases to exist, or
- Stored until 20 comments have been listed for one Alarm ID, regardless of whether the alarm has been acknowledged, reset, deleted, etc. When 20 comments have accumulated, the first comment entered is deleted to make room for the newest comment.

Options for comments include:

<u>Option</u> <u>3.7.1 (page</u> <u>126)</u>	View comments.
<u>Option</u> <u>3.7.2 (page</u> <u>127)</u>	Add comments.
<u>Option</u> <u>3.7.3 (page</u> <u>128)</u>	Store comments.
<u>Option</u> <u>3.7.4 (page</u> <u>129)</u>	Delete comments.

Option 3.7.1. View Comments for an Alarm

1. Click Comments.

An Alarm Comments window displays existing comments for the alarm.

Alarm Comme	ents
Alarm ID: Resource ID: Class:	S80_25 Date: Apr 08 16:39 \$SYSTEM State: ALARM MED Ack: N
Message:	Contact manager. Sectore 80 Machine 25
Date	Comment
Apr 8 16:48 Apr 8 16:47 Apr 8 16:47 Apr 8 16:43 Apr 8 16:43	Machine 25 needs to be taken off line. Manager needs to check Machine 25 feeder Need to stay by machine Machine 25 is finishing the job. Manager said to ignore alarm.
	Done Add Comment Delete Comment

- 2. Click either:
 - **Done** when you finish reading the comments.

The Alarm Comments dialog box closes.

• Click Add Comment to add a comment.

The Add Comment dialog box opens.

Option 3.7.2. Add Comments for an Alarm

1. Click Add Comment in the Alarm Comments dialog box.

An Add Comment dialog box opens.

2. Enter a comment.

Add Comment			×
Comment:			
Machine 25 needs to be take	en off line.		
	ОК	Cancel]

3. Click OK.

The comment appears at the top of the list of comments in the Alarm Comments dialog box.

Alarm Comme	ents
Alarm ID: Resource ID: Class: Message:	S80_25 Date: Apr 08 16:39 \$SYSTEM State: ALARM MED Ack: N Contact manager. Sectore 80 Machine 25
Date	Comment
Apr 8 16:48 Apr 8 16:47 Apr 8 16:47 Apr 8 16:43 Apr 8 16:43	Machine 25 needs to be taken off line. Manager needs to cneck Machine 25 feeder Need to stay by machine Machine 25 is finishing the job. Manager said to ignore alarm.
	Done Add Comment Delete Comment

4. Click **Done**.

A C appears next to the Alarm ID indicating that the alarm has comments.

Option 3.7.3. Store up to 20 Alarm Comments

Alarms can be temporarily stored in either of two ways:

• Only while an Alarm ID appears in the Alarm Viewer.

When the Alarm ID has been reset, deleted, or automatically removed, the comment ceases to exist.

• Until 20 comments have been listed for one Alarm ID, regardless of whether the alarm has been acknowledged, reset, deleted, etc.

When 20 comments have accumulated, the first comment entered is deleted to make room for the newest comment.

1. Click Project>Properties on the Workbench menu bar.

The Project Properties dialog box opens.

- 2. Select the Settings tab.
- 3. Select Alarms.
- 4. Click Settings.

The Alarm Properties dialog box opens.

5. Check Store alarm comments to store up to 20 comments for an Alarm ID.

×
ОК
Cancel

6. Click OK.

7. Update the project configuration.

The next time the project starts comments will be stored according to your specifications.

Option 3.7.4. Delete an Alarm's Comments

1. Select a comment in the Add Comments dialog box.

The Delete Comments button is enabled.

2. Click the Delete Comments button.



The comment is deleted and is no longer visible in the Alarm Comments dialog box.

Option 3.8. CimView Screen Button: View an Alarm's CimView Screen

1. (If not already configured) associate the involved Point ID with a CimView screen.

- a. Open the Point Properties dialog box for selected Point ID that has a configured alarm.
- b. Click **Advanced** on the General tab.
- c. Select the View tab that appears.
- d. Select a Screen from the selection in the drop down menu. Your options include CimView screens that are in the project directory.
- e. Update the project's configuration.
- 2. Open the Alarm Viewer while the project is running.
- 3. Select the Alarm ID when the point is in Alarm State and appears in the Alarm Viewer.
- 4. Click CimView Screen.

The associated CimView screen opens.

Note: If no screen is defined for the alarm, an appropriate message display.

Option 3.9. Delete Button: Delete an Alarm

- 1. Select the **Points** icon.
- 2. Double-click the appropriate Point ID in the right pane of the Workbench.
- 3. Open the Alarm Viewer.
- 4. Click Delete.

If the specified conditions are met, the alarm will be deleted.

AMV Control ActiveX Events

AMV Control ActiveX Events

- 1. Right-click the Alarm Viewer control.
- 2. Select Properties on the Popup menu.
- 3. Select the Events tab.
- 4. Configure any of the available Alarm Viewer control ActiveX events.



CustomButton

CustomButton

CustomButton triggers a procedure or script when a user clicks a custom button in the Alarm Viewer control.

ActiveX Event	CustomButton	OnCustomB	
1		-	P
Event	ActiveX Event		-
ActiveX Event:	CustomButton		•
Action	AlmEvent	(Procedure)	-
	I same room	((10000000)	
Action:	OnCustomButton (Script)	▼ >
Parameter			

Field	Description			
Event	ActiveX Event pro	vides the CustomButton expression.		
ActiveX Event	CustomButton is in	ncluded in the drop-down list.		
Action	Contains a drop-d	Contains a drop-down list of existing procedures and scripts. Use either of the following.		
	Procedure Create or use an existing procedure.			
	Script	Script Create or use an existing script.		
Parameter	Can be used if the event invokes a script directly or through a procedure. The default code begins as follows. Private cimOleObj As AMVOCXLib.IAmvOcx Sub OnCustomButton(ButtonNumber As Long, ButtonString As String) Where parameters are:			
	ButtonNumber Number assigned to the custom button, e.g. 1 for Custom1.			
	ButtonString	ButtonString Value returned when a command string (page 98) is executed.		

Example: Create an ActiveX Event Custom Button

1. Open a <u>Button Caption (*page 98*)</u> dialog box for a Custom Button in the CIMPLICITY AMV Control Properties dialog box.

Note: The mode on the Buttons tab can be Static or Dynamic.

2. Enter the following.



Field	Enter
Button caption	Point Value.
Description	Message for selected alarm.
Command string	%MSG

- 3. Check Fire ActiveX event.
- 4. Click OK.
- 5. Repeat 1-4 for either the Static or Dynamic mode, whichever still needs the button, so the button will display in both modes.
- 6. Close the CIMPLICITY AMV Control Properties dialog box.

A PointValue button displays in the Button bar.



- 7. Open the Properties Object dialog box (Alt+Enter).
- 8. Select Events.
- 9. Configure a CustomButton event as follows.

Properties - Object	_				×
Colors		Event	Expression	Procedure	
Geometry		ActiveX Event	CustomButton	OnCustomButt	on (Script
General					
Movement					
Scaling		•			F
Rotation/Fill	Α	Event	ActiveX Event		•
Color Animation	В	ActiveX Event	CustomButton		-
Transparency			Castombatton		
Events					
Script	С	Action:	OnCustomButtor	(Script)	• >
Variables		Parameter:			
Menus			Debounce ev	/ent	
Procedures		New	Duplicat	e De	lete
Control Properties					
		ОК	Cancel A	pply He	lp

rect 81, 121, 110, 152 (*page 133*) rect 79, 150, 113, 181 (*page 133*) rect 75, 202, 117, 233 (*page 133*)

A Event

Select ActiveX Event.

B ActiveX Event

Select CustomButton.

C Action

Create a new script.

For this example:

- a. Copy the PointGet (function) script example from the Basic Control Engine documentation into the Script editor to create message boxes that will display the value for a specified point.
- b. Include the <u>ButtonString (page 131)</u> parameter value in the message.

Ed	it Script
Fle	Edit View Tools Help
Þ	
RI	Sub OnCustonButton(ButtonHumber As Long, Butte
1	MsgBox "Value is " & PointGet(InputBox\$(")
16	& "ATTENTION: = " &ButtonString
•	

The script is as follows.

```
Sub OnCustomButton(ButotonNumber As Long, ButtonString As String)
```

10. Click OK.

11. Test the PointView button.

When a user clicks Point Value, a message box displays for a Point ID; the specified point ID value and the alarm message are returned.

🛃 AlarmViewer.cim		
File View Help	BasicScript	×
🗃 🖨 🎗 🗠 1 🛛	Enter Point Id	OK
Time Ack Alarm ID 11:05 N DB_CONN_DOWN 11:05 N DB_CONN_DOWN	₽	Cancel
10:46 N TANK810 09:25 N TANK_LEVEL 09:25 N TANK2	ALARM TANK2 is 90	BasicScript
10 Feb 9 11:05 Toggle	Point Value Ack	ATTENTION: = CALL SUPERVISOR
,		

А	Click Point Value. A BasicScript message box opens.
в	Enter a Point ID in the message box field.
С	A Basic Script message box displays the:
	Point value.Message for the selected alarm.

NewAlarm

NewAlarm triggers a procedure or script when a new alarm is received or when an existing alarm has a state change.

Event	Expression	Procedure	Parame	
ActiveX Event	NewAlarm	OnNewAlarm		
1	▲			
1				
1				
<u> </u>			•	
Event	ActiveX Event		-	
ActiveX Event	Newálarm		-	
Figure L Fork.	Inconvidini			_
Action	AlmEv	ent (Procedure)		<u> </u>
Antinu	0 N			
Action:	UnNewAlarm (S	criptj		
Parameter:				

Field	Description			
Event	ActiveX Event prov	ides the NewAlarm expression.		
ActiveX Event	NewAlarm is includ	ed in the drop-down list.		
Action	Contains a drop-do	wn list of existing procedures and scripts. Use either of the following.		
	Procedure	Procedure Create or use an existing procedure.		
	Script	Create or use an existing script.		
Parameter	Can be used if the event invokes a script directly or through a procedure. The default code begins as follows. Private cimOleObj As AMVOCXLib.IAmvOcx Sub OnNewAlarm(NewAlarms As Boolean, AlarmCount As Long, AlarmDate As String) Where parameters are:			
	NewAlarms True if a new alarm was received.			
	AlarmCount Number of alarms being displayed.			
	AlarmDate Time stamp of the alarm update or new alarm.			

AlarmItemClick

AlarmItemClick

AlarmItemClick triggers a procedure or script that can provide a list of information when a user clicks an alarm in the Alarm Viewer control.

Event	Expression	Procedure		
ActiveX Event	AlarmItemClick	OnAlarmItemCli	ick (S	
▲			Þ	
Event:	ActiveX Event		•	
ActiveX Event:	AlarmItemClick		-	
1.1		ent (Procedure)		•
Action				_
Action				
Action:	OnAlarmItemClic	k (Script)	• >	

Field	Description			
Event	ActiveX Event provides the AlarmItemClick expression.			
ActiveX Event	AlarmItemCli	ck is included in the drop	o-down list.	
Action	Contains a drop-down list of existing procedures and scripts. Use either of the following.			
	Procedure	Create or use an existi	ing procedure.	
	Script	Create or use an existi	ing script.	
Parameter	Can be used if the event invokes a script directly or through a procedure. The default code begins as follows. Private cimOleObj As AMVOCXLib.IAmvOcx Sub OnAlarmItemClick(AlarmInfo As AMVOCXLib.AmvOcxAlarmItemInfo, ClickSource As Long) Where parameters are:			
	AlarmInfo	Object that accesses s	several properties as follows.	
		Property Description		
		String AlarmIdentifier()	Alarm ID	
		String Resourceldentifier()	Resource ID	
		String ReferenceIdentifier()	Reference ID	
		String Project()	Project name	
		Date GenerationTime()	Date/time the alarm was generated	
		Long AlarmState()	Alarm state	
		Long AckState()	Acknowledge state	
		String AlarmScreen()	(For point alarms only) Screen that is associated with the point on the Point Properties dialog box View tab.	
		Long Severity()	Alarm severity	

Field	Description				
		String AlarmMessage()		Alarm message	
		Long Durat	ion()	Alarm duration	
		String TranslatedAlarmMessa		Alarm message translated into the language specified for screen gen()which the alarm is selected. Important: The language and translated string must be in the CIMPLICITY Language Mapper to display correctly.	
	ClickSource	Source that as follows.	t was used t	to click on an alarm in the Alarm Viewer list. The source is identified	
		Source	Identified I	ру	
		Left- mouse button	0		
		Right- mouse button	1		
		Enter key	2		
		Note: The AlarmItemClick event will not be fired for the right-mouse button if the Context (Popup) menu is enabled for the Alarm Viewer control.			
		Checkbox	kbox Location		
		Right click menu	Privileges tab in the Role Properties dialog box.		
		Allow runtime popup menu	low Display tab in the CIMPLICITY AMV Control Properties dialog box.		

Example: Configure an AlarmItemClick Event

- 1. Open the Properties Object dialog box (Alt+Enter).
- 2. Select the Events tab.
- 3. Configure an AlarmItemClick event as follows.

Properties - Object			X
Colors	Event	Expression	Procedure
Geometry	ActiveX Event	AlarmItemClick	OnAlarmItemClick (Scrip
General			
Movement			
Scaling	•		•
Rotation/Fill A	Event	ActiveX Event	•
Color Animation	A abire V Erroub	AlereitereCtet	
Transparency B	Actives Evenc	Alarmitemulick	<u> </u>
Events			
Script C	Action:	OnAlarmItemClick	k (Script) 💌 >
Variables	Parameter:		
Menus		Debounce ev	vent
Procedures	Maur	1 Durlant	a l Dalas l
Control Properties	New	Duplicate	e Delete
	ОК	Cancel	Apply Help

rect 76, 126, 124, 158 (*page 138*) rect 72, 156, 117, 188 (*page 138*) rect 63, 206, 120, 238 (*page 138*)

A Event

Select ActiveX Event.

B ActiveX Event

Select AlarmItemClick.



Create a new script.

For this example a user will display a message box when an alarm is selected and either of the following occurs.

• Right mouse button is clicked.

Note: The <u>Allow runtime popup menu (*page 48*)</u> checkbox on the CIMPLICITY AMV Control Properties dialog box Display tab is <u>clear (*page 137*)</u>.

• Enter is pressed on the keyboard.



The script is as follows.

```
Private cimOleObj As AMVOCXLib.IAmvOcx
Sub OnAlarmItemClick(AlarmInfo As AMVOCXLib.AmvOcxAlarmItemInfo,
ClickSource As Long)
Dim sourceStr As String
Select Case ClickSource
Case AMV_LeftMouseButton
   sourceStr = "AMV_LeftMouseButton"
Case AMV_RightMouseButton
   sourceStr = "AMV_RightMouseButton"
Case AMV_EnterKey
   sourceStr = "AMV_EnterKey"
End Select
If ClickSource=AMV_EnterKey Or ClickSource=AMV_RightMouseButton Then
Dim DataString As String
 DateString = Format(AlarmInfo.GenerationTime, "mmm dd hh:nn:ss AM/
PM")
 MsgBox "AlarmIdentifier = " & AlarmInfo.AlarmIdentifier & ebCRLF & _
        "ResourceIdentifier = " & AlarmInfo.ResourceIdentifier &
ebCRLF & _
       "ReferenceIdentifier = " & AlarmInfo.ReferenceIdentifier &
ebCRLF & _
"AlarmGenTime = " & DateString & ebCRLF & _
"AlarmScreen = " & AlarmInfo.AlarmScreen & ebCRLF & _
  "AlarmMessage = " & AlarmInfo.AlarmMessage & ebCRLF & _
 "TranslatedAlarmMessage = " & AlarmInfo.TranslatedAlarmMessage
& ebCRLF & _
"Click Source = " & sourceStr
 End If
 End Sub
```

4. Click OK.

5. Test the Properties script.

When a user selects an alarm and either right-clicks or presses Enter on the keyboard, a Message box displays. Values for the properties specified in the script are listed.

8	Alarms.cim					1	
File	: View Help						
Ala	arm ID	Project Name	Time	State	Ack		
PRO	OCESS_VISCOSITY	ECIMP	15:46	NORMAL	M		I
TAI	NK935 Basi	Script				×	
For	Ala Apr 3 15:47 Help, press F1 A Clie	rmIdentifier = TANK45 sourceIdentifier = 90-3 ferenceIdentifier = TAN rmGenTime = Apr 03 0 rmScreen = D:\Project rmMessage = TANK45 inslatedAlarmMessage x Source = AMV_Righ)) K450 5:31:53 s\ECimp 0 Hi-2. I = TANk tMouse OK	PM o\screens Level is 1! 450 Hi-2. Button	\Chemical_Line 5500. Level is 15500 Click Source	e.cim I. e = AMV	_EnterKey
Α	AMV_RightMouse	Button is the Clic	k Sou	rce whe	en the alarm	n is rig	ht-clicked.
В	AMV_EnterKey is	the Click Source	when	the Ent	ter key is pr	essec	1.

Alarm Viewer Methods for the AMV Control

Alarm Viewer Methods for the AMV Control

The Alarm Viewer methods operate on Alarm Viewer OCX controls in a **CimView** screen. They give you access to the button functions used by the control so that you can invoke the button functions from other objects on your CimView screen.

Steps to implement an AMV Control method include:

<u>Step 1</u> (page 140)	Name the Alarm Viewer OCX control you want to use for the method.
<u>Step 2</u> <u>(page</u> <u>141)</u>	Create an Invoke Method action for the screen object and select the Alarm Viewer method you want to invoke.

When a user clicks on the object at runtime, the button function executes.

Step 1. Name an AMV Control

- 1. Select the AMV Control.
- 2. Click Edit on the menu bar,
- 3. Do one of the following.Select Properties

• Press Alt+Enter.

The Object Properties dialog box opens.

- 4. Select the General tab.
- 5. Enter a name for the AMV Control in the **Object name** field.



- 6. Do one of the following.
 - Click OK to save your changes and close the Object Properties dialog box.
 - Click Apply to apply the name and continue configuration.

You can now select the control when you create an Invoke Method action.

Step 2. Create an Invoke Method Action

You can create an Invoke Method action for any object or group for which you can define procedures in your CimEdit screen. The methods that are available depend on the selected object or group.

1. Select the Procedure tab in the Properties dialog box.

Note: You can also create a new procedure through the Events tab.

2. Click New.

The Procedure Information dialog box opens.

- 3. Click New.
- 4. Create an Invoke method action as follows.



A	Action type	Invoke method
В	Object name	Select the Alarm Viewer control object. Names of objects that have available methods are listed.
С	Method	Select a method. Alarm Viewer Control methods are listed when the Alarm Viewer control is selected.
D	Confirmed	Currently not implemented for the Alarm Viewer control.
E	Advanced	 When enabled: a. Click Advanced An Edit Method dialog box opens. a. Configure advanced specifications for the method. b. Click OK. The Edit Method dialog box closes.

5. Click Advanced...

An Edit Method dialog box opens.

6. Configure advanced specifications for the method.

7. Click OK.

The Edit Method dialog box closes.

8. (For all methods) Click either:

- New to add another method or
- OK to close the Procedure Information dialog box.

Alarm Viewer Methods

Alarm Viewer Methods

- AboutBox
- DoToggle
- AddProject
- DoViewStack
- DoAckAll
- GetProjectSetup
- DoAckFirst
- MoveDownOneAlarm
- DoAcknowledge
- MoveUpOneAlarm
- DoAckReset
- PageDownalarms
- DoCimviewScreen
- PageUpAlarms
- DoComments
- RemoveProject
- DoCustom<n>
- SelectAllAlarms
- DoDelete
- SelectFirstAlarm
- DoHelp
- SelectPageAlarms
- DoRefresh
- SelectTopAlarm
- DoReset
- SupressConnectionWarning
- SetProjectSetup
- DoSetup
- Methods reserved for GE Intelligent Platforms use.

AboutBox Method

Purpose:	Display the Help About dialog box for the CIMPLICITY AMV Control. There is no equivalent to this method in the AMV Control.
Advanced parameters	Not required.

AddProject Method
Purpose	Add a project to the AMV Control.	
Advanced parameters	Described next.	

Advanced parameters for AddProject

- 1. Click Advanced... to open the Edit Method dialog box.
- 2. Enter a project name.
- 3. Enter one of the following for the **Setup value**:
 - An empty string (""), which will be the selected project's default setup, or
 - A setup name.

(!) Important: Enclose the string entries in quotes.

DoAckAll Method

Purpose	Acknowledge all alarms in the CIMPLICITY AMV Control's alarm list.
Equivalent to	Ack All button in the AMV Control.
Advanced Parameters	Not required.

DoAckFirst Method

Purpose	Acknowledge the first alarm in CIMPLICITY AMV Control's alarm list.	
Equivalent to	Ack First button in the AMV control.	
Advanced parameters	Not required.	

DoAcknowledge Method

Purpose	Acknowledge the currently selected alarm(s) in the alarm list on the CIMPLICITY AMV Control .
Equivalent to	Ack button in the AMV Control.
Advanced parameters	Not required.

DoAckReset Method

Purpose	Acknowledge and reset the currently selected alarm(s) in the alarm list on the CIMPLICITY AMV Control
Equivalent to	Ack and Reset button in the AMV Control.

```
Advanced Not required. parameters
```

DoCimviewScreen Method

DoCimviewScreen Method

Purpose	Display the CimView screen configured for the currently selected alarm in the alarm list on the CIMPLICITY AMV Control.
Equivalent to	CimView Screen button in the AMV Control. Important: At runtime, the user must select only one alarm for this method to work. If the user selects more than one alarm, the method will not execute.
Advanced parameters	Not required.

Note: The CimView screen that you assign to a point on the View tab in the Point Properties dialog box is the screen that displays when a user selects the alarm in the AMV Control and the DoCimviewScreen method is invoked.

neral	Virtual View	- Linik	- Conver	ion Alarm	Alarm Ro	outing Alarm Opti
Forma	ıt					-
Justif	cation: 🖲 L	eft C	<u>B</u> ight C	ero		
Widt						
_						
Grapi	ics					-
Displa	iy l <u>o</u> w:		- Display	high:		
	_			· ·		
Carac	n: Trend	cim 🚽	11		-	

DoCimviewScreen and Viewers

- 1. Display the C:\Program Files\Proficy\Proficy CIMPLICITY\Data directory in Windows Explorer or at a Command prompt on the Viewer.
- 2. Open the log_names.cfg file in a text editor.

The control looks for the path to the screen in this file. By default, it assumes that the Alarm Viewer OCX is running on the server.

3. Find the following lines.

* GSM Logical names * GMMI_SCREENS|S|default|30|SITE_ROOT:\screens GMMI_SCREENS|P|default|30| SITE_ROOT:\screens

4. Change SITE_ROOT to the actual path that leads to the Screens folder.

Example * GSM Logical names * GMMI_SCREENS|S|default|30|M:\PROJECTName:\screens GMMI_SCREENS|P| default|30|M:\PROJECTName:\screens

Where

M:	is a mapped drive from the server
\PROJECTName	is the name of the project that has the assigned screens.

DoComments Method

Purpose	Open the Alarm Comments dialog box for the currently selected alarm in the CIMPLICITY AMV Control's alarm list so that users can view, add, or delete comments for the alarm.
Equivalent to	Comments button in the AMV Control. At runtime, the user must select only one alarm for this method to work. If the user selects more than one alarm, the method will not execute.
Advanced parameters	Not required.

DoCustom<n> Method

Purpose	Launch user-defined applications from the CIMPLICITY AMV Control .
Equivalent to	Custom1 through Custom8 buttons in the AMV Control.
Advanced parameters	Not required.

DoDelete Method

Purpose	(If users have the Alarm delete privilege) delete the currently selected alarm(s) in the alarm list on the CIMPLICITY AMV Control.
Equivalent to	Delete button in the AMV Control .
Advanced parameters	Not required.

DoHelp Method

Purpose	Open the Alarm Operator Help dialog box for the currently selected alarm in the CIMPLICITY AMV Control's alarm list.
Equivalent to	Help button in the AMV Control. At runtime, the user must select only one alarm for this method to work. If the user selects more than one alarm, the method will not execute.
Advanced parameters	Not required.

DoRefresh Method

Purpose	Refresh Static Alarm list in the CIMPLICITY AMV Control with the latest alarms.	
Equivalent to	Refresh button in the AMV Control.	
Advanced parameters	Not required.	

DoReset Method

Purpose	Let a user reset the currently selected alarm(s) in the CIMPLICITY AMV Control's alarm list.
Equivalent to	Reset button in the AMV Control. A reset alarm will not be generated again until it returns to its normal state then goes back to an alarm state.
Advanced parameters	Not required.

DoSetup Method

Purpose	Open the Alarm Setups dialog box so that users can select the filtering they want when viewing alarms in the CIMPLICITY AMV Control.
Equivalent to	Setup button in the AMV Control.
Advanced parameters	Not required.

DoToggle Method

Purpose	Toggle the CIMPLICITY AMV Control between the Static Alarm list and the Dynamic Alarm list.	
Equivalent to	Toggle button in the AMV Control.	
Advanced parameters	Not required.	

DoViewStack Method

Purpose	Open the Stacked Alarms dialog for the selected alarm in the CIMPLICITY AMV Control.
Equivalent to	View Stack button in the AMV Control. At runtime, the user must select only one alarm for this method to work. If the user selects more than one alarm, the method will not execute.
Advanced parameters	Not required.

GetProjectSetup Method

Purpose	Return a string that contains the current setup name.
Advanced parameters	Described next.

Advanced parameters for GetProjectSetup:

- 1. Click **Advanced** to open the Edit Method dialog box.
- 2. (Optional) Enter one of the following for the **Project value**.:An empty string ("").

The AMV Control attaches a project to the string, in the following order of priority.

a. A default project.

If you run CimView in the context of a project, it creates a default project.

- a. The connected project.
- a. The first project in a list of projects to which the user is connected.

The list of projects displays in the Alarm Viewer **Project Name** field. To display this field check **Project Name** on the Fields tab in the CIMPLICITY AMV Control Properties dialog box.

- A project name.
- 3. Click OK.

Important: Enclose the string entries in quotes.

MoveDownOneAlarm Method

Purpose	Highlight the next alarm in the CIMPLICITY AMV Control's alarm list. If the current alarm is the last alarm on the screen but not the last in the list, this method moves the list up to highlight the next alarm.
Equivalent to	Down arrow on a user's keyboard.
Advanced parameters	Not required.

MoveUpOneAlarm Method

Purpose	Highlight the previous alarm in the CIMPLICITY AMV Control's alarm list. If the current alarm is the first alarm on the screen but not the first alarm in the list, this method moves the list down to highlight the previous alarm.
Equivalent to	Up arrow on a user's keyboard.
Advanced parameters	Not required.

PageDownAlarms Method

Purpose	(If there is more than one screen of alarms in the AMV Control's alarm list) display the next screen of alarms.
Equivalent to	Page Down button on the user's keyboard.
Advanced parameters	Not required.

PageUpAlarms Method

Purpose	(If there is more than one screen of alarms in the CIMPLICITY AMV Control's alarm list) displays the previous page of alarms.
Equivalent to	Page Up key on the user's keyboard.
Advanced parameters	Not required.

RemoveProject Method

Purpose	Remove a project from the AMV Control.
Advanced parameters	Described next.

Advanced parameters for RemoveProject:

- 1. Click **Advanced...** to open the Edit Method dialog box.
- 2. Enter one of the following for the **Project value**.

An empty string ("").

- The AMV Control attaches a project to the string, in the following order of priority.
- a. A default project.

If you run CimView in the context of a project, it creates a default project.

- a. The connected project.
- b. The first project in a list of projects to which the user is connected.

The list of projects displays in the Alarm Viewer **Project Name** field. To display this field check **Project Name** on the Fields tab in the CIMPLICITY AMV Control Properties dialog box.

• A project name.

! Important: Enclose the string entries in quotes.

SelectAllAlarms Method

Purpose	Select all alarms in the CIMPLICITY AMV Control's alarm list.
Advanced parameters	Not required.

SelectFirstAlarm

Purpose	Selects the first alarm in the list and displays it.
Advanced parameters	Not required.

SelectPageAlarms Method

Purpose	Select all alarms displayed on the current screen in the CIMPLICITY AMV C	
Advanced parameters	Not required.	

SelectTopAlarm Method

Purpose	Select the first alarm from the current page displayed in the CIMPLICITY AMV Control and de-select all other selected alarms.
Advanced parameters	Not required.

SetProjectSetup Method

Purpose	Allow a user to select a specified alarm setup that is currently supported by a project.
Advanced parameters	Described next.

Advanced parameters for SetProjectSetup:

- 1. Click Advanced... to open the Edit Method dialog box.
- 2. Enter one of the following for the **Setup value**.
 - An empty string ("") that results in an unfiltered alarm list, or
 - A setup name.

3. (Optional) Enter one of the following for the **Project value**.

- An empty string (""), which will
- Attach to a current project running inside a project or

- Use the first project to which the user is connected.
- A project name.
- 4. (Optional) Enter a text point ID in the **Method result** field.

[] Important: Enclose the string entries in quotes.

SuppressConnectionWarning Method ame

Purpose Allows you to suppress warning dialog pop up that appears when an alarm viewer is disconnected from the project.

Example

Private cimOleObj As AMVOCXLib.IAmvOcx

Sub OnScreenOpen()

cimOleObj.SuppressConnectionWarning = True

End Sub

Note: This script should be available in Alarm Viewer Object to work as expected.

Methods Reserved for GE Use

The following method is reserved for GE use:

NotifyAllPropertySinks

Chapter 5. Alarm Sound Manager

About the Alarm Sound Manager

The Alarm Sound Manager is a stand-alone utility that plays sound and displays alarm information for selected running CIMPLICITY projects that are broadcasting on your local network. The Alarm Sound Manager plays sound for one alarm at a time, the alarm that has the highest priority based on your configuration (in both the Alarm Class Configuration dialog box and the CIMPLICITY® Alarm Sound Manager dialog box).

The CIMPLICITY® Alarm Sound Manager can be <u>opened (*page 154*)</u> through the Windows Start menu and through the CIMPLICITY Workbench. Once opened, an icon is placed on the Windows Task bar. The icon can be used to display or minimize the dialog box.

The following are important requirements for operating systems in general and for Windows Server 2008 R2, specifically.

(All Operating Systems) Sound Configuration Required

You configure the sound (. **wav** file or beeps) for projects in each class' Alarm Classes Configuration dialog box.

The Alarm Sound Manager only deals with classes for which sound is configured.

As a result, the Alarm Sound Manager does not report alarms associated with classes for which no sound is configured.

You can create sound either:

- From a wave file if your system supports .wav files.
- With the beep, if your system has a speaker.

(Windows Server 2008 R2) Configuration Requirements

Windows Server 2008 R2 disables sound features in the default installation. The following sound features must be enabled in order to enable the Alarm Sound Manager to play sound.

- 1. Install the Desktop Experience server feature.
- 2. Configure the Windows Audio service to start automatically.
- 3. Configure the Beep service to start automatically, as follows.

sc config beep start= auto

- 4. Enable the SystemSoundsService task to run on user logon, as follows.
- 5. Open the Task Scheduler.
- 6. Select the Task Library.
- 7. Navigate to Microsoft/Windows/Multimedia.
- 8. Right-click the SystemSoundsService task and click Enable.
- 9. Restart the server.

The Alarm Sound Manager will be able to play sound for a running project after the server is rebooted and the sound is configured.

Alarm Sound Manager Configuration

<u>Step 1</u> (page 153)	Configure sound for relevant alarm classes.
<u>Step 2</u> (page 154)	Open the CIMPLICITY® Alarm Sound Manager dialog box.
<u>Step 3</u> (page 155)	Add projects to a sound manager profile.
<u>Step 4</u> <u>(page</u> <u>159)</u>	Configure runtime sound options.
<u>Step 5</u> (page 163)	Auto-start the Alarm Sound Manager.

Steps to configure alarm audio support include:

Step 1. Configure Sound for Relevant Alarm Classes

You select .wav files or configure beeps for an alarm class on the Audio tab in the Alarm Class Configuration dialog box.

Alarm levet HiHi	•	Usel	he same setting	s for all alarm levels
No sound				
🗇 Wave file	File name:	27		
🕑 веер	Prequency:	3/	Hz	
	No of beens	1	ms	
	No or beeps:	100		Test
	urenay.	100	1112	1001

Step 2. Open the Alarm Sound Manager Dialog Box

- 1. Make sure that the projects that will be added to the Alarm Sound Manager are running.
- 2. Select **Project>Runtime>Alarm Sound Manager** in the Workbench left pane.
- 3. Select Alarm Sound Manager in the Workbench right pane.



Α	Click Edit>Properties on the Workbench menu bar.
В	Click the Properties button on the Workbench toolbar.
С	In the Workbench, double-click Alarm Sound Manager, or press Alt+Enter on the keyboard.
D	In the Workbench, double-click Alarm Sound Manager, or press Alt+Enter on the keyboard.

E	Press Alt+Enter on the keyboard.
F	Click an Alarm Sound Manager icon on the Windows Task bar. One of the following icons displays on the
	Windows Task bar if the Alarm Sound Manager is running. The Alarm Sound Manager sound is:

the CIMPLICITY® Alarm Sound Manager dialog box opens when you use either method.

vects Options Startup	
	Add
	Delete
	Modify
Mute	Load profile Save profile

Step 3. Add/Modify Projects in the Alarm Sound Manager

Step 3. Add/Modify Projects in the Alarm Sound Manager

<u>Step 3.1</u> <u>(page</u> <u>155)</u>	Configure projects to add to the list.
<u>Step 3.2</u> (page 158)	Save an alarm sound profile.

Step 3.1. Configure Projects to add to the List

Note: The Add Project dialog box opens when you modify an existing project's specifications. However, the Project field is disabled.

- 1. Select the Projects tab in the CIMPLICITY® Alarm Sound Manager dialog box..
- 2. Click Add.

The Add Project dialog box opens.

3. Fill in the fields as follows.

Add Proje	ect	×
Project:	ECIMP	ОК
Priority:	0	Cancel
Setup:	< < UNFILTERED>> 	
rect 8, 2 rect 7, 3	24, 245, 55 <u>(page 156)</u> 54, 134, 85 (page 156)	

rect 7, 91, 244, 122 (page 156)

<u>A</u> (page 156)	Project
<u>B</u> (page 156)	Priority
<u>C</u> (page 156)	Setup
A Proj	ect

Select a project from the drop down menu.

Projects that are running and available (e.g. broadcast) are listed.

B Priority

A number equal to or greater than 0 in the **Priority** field to specify the project's priority static to other projects.

0 is the highest priority.

The higher the number you enter, the lower the priority.

The list of projects on the Projects tab is sorted in the order of priority that you specify. The Alarm Sound Managers uses this project ordering to help determine which sound plays first at runtime.



An alarm setup that will filter alarms that trigger a sound.

Either:

- Type a setup in the **Setup** field.
- Click the Browse button to the right of the Setup field.

An Alarm Setups dialog box opens.

Alarm S	etups	×	
Setup:	ALARMBLOCK < <unfiltered>> ALARMBLOCK SETUP1</unfiltered>	OK Cancel Save Load Delete	
		Make Default Modify Current	(105)
			(page 105)

Setups listed in the Alarm Setups dialog box were created in any of the following.

- Stand-alone Alarm Viewer
- Alarm Viewer OCX
- Alarm Sound Manager



- You can create a new or modify an existing setup (page 105) to enter in the Setup field.
- If you do not select a setup, CIMPLICITY uses the <<Unfiltered>> setup, which will trigger sound for any alarm in the project.
- 4. Click OK.

If you are not logged into CIMPLICITY, a CIMPLICITY® Login dialog box opens.

Enter your User ID and Password.

CIMPLICITY® Login - TRK61					
User ID :	ADMINISTRATOR	OK			
Password :	******	Cancel			
🗖 Save Us	er ID + Password	Help			

Once you are logged in, the project displays in the list of projects on the Projects tab in the CIMPLICITY® Alarm Sound Manager dialog box. If an alarm is generating a sound, a message provides the alarm's:

- Project
- Class

- Generation date/time
- Message

Projects Options Startup	nd Manager			
CIMP	Add Delete Modily			
Mute	Load profile Save profile			
ECIMP : ABLCK : 6/12/2006 2:38:31 PM TANK810 is Hi-2: Level is 250001				
Minimize	Exit Help			

5. Repeat adding projects until all of the projects that should have sound for alarms appear in the **Projects** list.

Note: Select a project in the list and click **Delete** if you want to remove it from the Alarm Sound Manager.

Step 3.2. Save an Alarm Sound Profile



1. Click Save profile... on the Projects tab

An Open dialog box opens.

2. Open the folder in which you want to save the profile.

3. Enter a file name.

The file is an .ini file.

4. Click OK.

The Alarm Sound Manager saves the configuration that display on all of the tabs in the CIMPLICITY® Alarm Sound Manager dialog box in an .ini file.

You can continue to save the profile if you change the configuration on any other tabs.

The profile is available whenever it is required.

i **Tip:** Click Load profile... on any tab in the CIMPLICITY® Sound Manager dialog box to load any of the profiles you saved.

Step 4. Configure Runtime Sound Options

Step 4. Configure Runtime Sound Options

Select the Options tab in the CIMPLICITY® Alarm Sound Manager dialog box.

Options are as follows.



rect 211, 207, 289, 230 <u>(page 162)</u> rect 2, 209, 80, 232 <u>(page 162)</u> rect 128, 172, 275, 195 <u>(page 162)</u> rect 9, 174, 129, 197 <u>(page 162)</u> rect 132, 48, 275, 140 <u>(page 161)</u> rect 9, 148, 152, 171 <u>(page 161)</u> rect 15, 43, 128, 116 <u>(page 160)</u>

<u>1</u> <u>(page</u> <u>160)</u>	Sound/beep priority
<u>2</u> <u>(page</u> <u>161)</u>	Project default priority
<u>3</u> <u>(page</u> <u>161)</u>	Stop sound/beep on
<u>4</u> <u>(page</u> <u>162)</u>	Repeat sound/beep on
<u>5</u> <u>(page</u> <u>162)</u>	Clear mute on new alarm/Mute
<u>6</u> <u>(page</u> <u>162)</u>	Save profile

1 Sound/beep priority

Select which priority the Alarm Sound Manager should check first when concurrent alarms are received as follows.

Check	Alarm Sound Manager Checks static Priority of each alarm's:
Alarm Class	Class, as specified in the Alarm Class Configuration dialog box. Determination of the highest priority alarm is:
	 The sound for the first alarm with the highest priority alarm class is played first. If alarms exist for the same alarm class in more than one project, then the highest priority alarm for the highest priority project is played first.
	3. If alarms exist for the same alarm class in the same project, the alarm that is triggered first is played first.
Project	Project as specified in the Add Project dialog box that is opened through the Projects tab in the CIMPLICITY® Alarm Sound Manager dialog box. Determination of the highest priority alarm is:
	 The sound for the alarm with highest priority Alarm Class in the highest priority project is played first. If more than one project has the highest priority, then the order in which the projects display in the Alarm Sound Manager dialog box determines the project priority.

(i) Tip: The following keys select the alarm class or project.

Key	Selects
Alt+R	Alarm Class
Alt+P	Project
	,

2 Project default priority

Specifies the default priority that the Alarm Sound Manager will assign to each project that is added to a current session.

Enter 0 or higher.

0 is the highest priority. The higher the number, the lower the priority.

The number you enter displays in the Priority (page 155) field when you open a new Add Project dialog box.

3 Stop sound/beep on

Specify the condition under which the sound/beep for an alarm is stopped as follows.

Check	Alarm sound/beep stops when the alarm is:
Acknowledge only	Acknowledged
Reset only	Reset.
Both Ack and Reset	Acknowledged and reset.
Either Ack or Reset	Acknowledged or reset.

When the Alarm Manager stops the sound for one alarm, it provides sound for the next highest priority alarm.

4 Repeat sound/beep

Select whether or not to have the Alarm Sound Manager repeat the sound for an alarm until it meets the **stop sound/beep on** conditions, as follows.

Repeat sound/ beep	Description
Check	The Alarm Sound Manager repeats the sound. The .wav sound or group of beeps (as specified in the Alarm Class Configuration dialog box) repeats every 10 seconds for the alarm until the stop sound/beep condition is satisfied. When the stop condition is satisfied the Alarm Manager repeats the sound for the alarm that assumes the highest priority status.
Clear	The Alarm Sound Manager provides a .wav sound or group of beeps once and then moves to the next alarm. The Alarm Sound Manager rotates through the alarms, playing the sound for each during its turn in the rotation. When the stop condition is met for an alarm, the Alarm Sound Manager removes that alarm from the rotation. Tip: Press Alt+U to check/clear Repeat sound/beep.
	rotation. When the stop condition is met for an alarm, the Alarm Sound Manager removes that alarm from rotation. Tip: Press Alt+U to check/clear Repeat sound/beep.

5 Clear mute on new alarm

Play or mute the sound as follows:

Check	То
Mute Mute all alarms. Note: The message still displays.	
Mute and Clear mute on new alarm	Mute existing alarms, but enable the sound when there is a new alarm. The Alarm Sound Manager clears the Mute check box.
Neither (clear both)	Enable sound for all alarms. The sound is repeated for the highest priority alarm or rotated among alarms depending on whether or not Repeat sound/beep is checked.
6 Save profile	

Click <u>Save profile (page 158)</u> to save your selections in the open profile.

Example: Prioritize Alarm Sounds

You have three projects, each with two Alarm Classes as follows:

Project	Project Priority	Alarm Class 1	Class 1 Priority	Alarm Class 2	Class 2 Priority
PROJ_A	3	ALM_A	1	ALM_B	2
PROJ_B	2	ALM_A	1	ALM_B	2
PROJ_C	1	ALM_A	1	ALM_B	2

In addition, you currently have one alarm generated for each class in each project.

If you prioritize audio alarms by:

Alarm Class, the alarm order is:

Alarm Sound	Alarm	
Order	Project	Class
1	PROJ_C	ALM_A
2	PROJ_B	ALM_A
3	PROJ_A	ALM_A
4	PROJ_C	ALM_B
5	PROJ_B	ALM_B
6	PROJ_A	ALM_B

Project, the alarm order is:

Alarm Sound	Alarm	
Order	Project	Class
1	PROJ_C	ALM_A
2	PROJ_C	ALM_B
3	PROJ_B	ALM_A
4	PROJ_B	ALM_B
5	PROJ_A	ALM_A
6	PROJ_A	ALMB

Step 5. Auto-start the Alarm Sound Manager

Select the Startup tab in the CIMPLICITY® Alarm Sound Manager dialog box.

Options are as follows.



rect 210, 208, 298, 233 <u>(page 165)</u> rect -3, 206, 85, 231 <u>(page 164)</u> rect 10, 90, 284, 115 <u>(page 164)</u> rect 7, 44, 162, 69 <u>(page 164)</u>

<u>1</u> (pa 16	a <u>ge</u> 4 <u>)</u>	Start at Windows startup
<u>2</u> (pa 16	a <u>ge</u> 4)	Use profile
<u>3</u> (page 164)		Mute
1	Star	at Windows startup

Check Start at Windows Startup to start an Alarm Sound Manager profile when Windows starts up.

2 Use profile

Specify the Alarm Sound Manager profile that will be used as follows.

1. Click the Open dialog box button at the right of the Use profile field.

The Open dialog box opens.

- 1. Find and select the profile (.ini file).
- 2. Click OK.

3 Mute

Check or clear to specify the following.

Check	The Alarm Sound Manager will:
	 Be mute when Windows opens Start and load the selected profile when Windows reboots.
Clear	The Alarm Sound Manager will:
	• Provide the selected sounds as soon as one of the listed projects is running as soon as Windows reboots.
	Note: If the projects are running on the same server as the Alarm Sound Manager, select them to start when Windows reboots in the CIMPLICITY Options dialog box.
	Start and load the selected profile when Windows reboots.
4 Sav	<i>r</i> e profile

Click <u>Save profile (page 158)</u> to save your selections in the open profile.

Results

One of the Alarm Sound Manager $\underline{icons (page 155)}$ displays in the Windows Task bar when Windows starts.



When the Alarm Sound Manager is opened the following displays.

CIMPLICITY® Alarm Sound	Manager
Projects Options Startup	
	Add
	Mgdify
3⊽ <u>M</u> ute	Load profile
ECIMP : HIGH : 6/13/2006 1 Node ALBMUSB2 detects li	:43:48 PM nk to CIMPDEMO is Down
Migimize	Exit Help

1	Projects in the selected profile that are running display as connected (green).
2	Projects in the selected profile that are not running display as not connected (red).
3	The Alarm Sound Manager will be mute or will provide sound, as specified.

Chapter 6. DGR

About Dynamic Graphic Replay

Dynamic Graphical Replay (DGR) is a powerful tool to help you, a system administrator, troubleshoot problems that have occurred in your processes.

C Live C Historical Replay	Playing
lime Definition	
Start date: Start time:	Set Start Date and Time
End date: End time:	
3/18/2011 💌 1:18:11 PM 🔆	Set End Date and Time
DGR Date Time Display:	03-18-2011 11:38:12
DGR Date Time Display: Playback Speed: 1.000 X	03-18-2011 11:38:12
DGR Date Time Display: Playback Speed: 1.000 X	03-18-2011 11:38:12
DGR Date Time Display: Playback Speed: 1.000 X	03-18-2011 11:38:12
DGR Date Time Display: Playback Speed: 1.000 X Playback Speed: 1.000 X DGR Date Time Display: DGR Date Time Displa	03-18-2011 11:38:12

- Configuration for DGR use.
- DGR operation.

Overview

DGR enables you to review and diagnose what conditions may have led to an event of interest. Because the DGR automates reviewing either Database Logger or Proficy Historian logged data you can quickly and precisely pinpoint when and by how much one or more points deviated from the norm.

Using the DGR, you can:

- View logged point data history using a project:
- CimView screen.
- Trend chart.
- Point Control Panel.

Note: Replay speed can be up to a maximum of 100 times faster than real-time and a down to a minimum speed of 1/10 real-time.

- Search logged data to locate when a point value meets a specified condition.
- A **Start Search** functionality sets the playback start time to the time of a corresponding specified condition.
- A Stop Search functionality pauses playback each time a specified condition is met.
- Run independent DGR sessions on one or more terminal sessions, serving requests for play backs
- DGR plays back values as follows.

DGR mode	For		DGR Plays Back
Live	Points		Real time values.
	Point or class attributes		Real time values.
Historical Replay	Points	Logged	Logged values.
	Points	Not logged	Not available
	Point or class attributes	Logged to SQL Server	Logged values.
	POINT_ID and TIMESTAMP	Logged to Historian	Logged values
	Point attributes or class attributes	Not logged	Current values.

- Note:

- Point ID and TIMESTAMP are the only attributes that are logged to Historian.
- The DGR is local to the Viewer or Server on which it is running. When you switch to DGR mode all of the local CimView point data switches to DGR mode. As a result, your system can continue displaying live data on one viewer while it displays DGR time on another.

Example



• When running DGR with SQL Server, current Point attribute and class attribute values can be viewed. However, they are read-only.

Important: DGR does not run in Demo mode.

Configuration for DGR Use

Configuration for DGR Use

Do the following before you open the DGR.

<u>Step 1</u> (<u>page</u> <u>168)</u>	Select the playback source.
<u>Step 2</u> (page 169)	Check Log Data in the Point Properties dialog box.
<u>Step 3</u> <u>(page</u> <u>170)</u>	(Configure and) Run a runtime application to display point values.

[] Important: DGR is supported for projects logging to SQL Server or Proficy Historian.

Step 1. Select the Playback Source

- 1. Open the Project Properties dialog box.
- 2. Check one of the following.
 - Pull historic Data from SQL Server.



- Clear Historian OPC Interface В • Pull historic data from Historian. X **Project Properties** General Options Settings Historian Change Management Project name: DGR Options: rotocols: Action Calendar AB Ethernet . Adv. DDE/DDE Client (As-Is) Database Logger : A&E & App Allen-Bradley DF-1 ODatabase Logger : Points Allen-Bradley RFID Document Delivery CCM2 Historian OPC A&E Interface FloPro/FloNet Ethernet E Genius V Historian OPC Interface Honeywell IPC 620 Marquee Driver Mitsubishi Serial MODBUS RTU Slave Mitsubishi TCP/IP MODBUS RTU MODBUS TCP/IP Slave Proficy SOA Host Recipes Cancel Help A Clear Database Logger - Points. В Check Historian OPC Interface.
- 3. Configure your selection to receive logged data.

DGR will play back data from the selected source.

Step 2. Check Log Data in the Point Properties dialog box.

- 1. Select each point for which logged data should be available for diagnosis.
- 2. Open the point's Point Properties dialog box.
- 3. Select the General tab.
- 4. Check Log data.

	al View Limits Conversion Alarm	Alarm Routing Alarm Options
Description:	HEAT101	Basic <<
Data type:	INT v Elements: 1	Read only 📝 Enable point
Resource ID:	HEATING 🔛 🔊	📝 Enable alarm
- Trend histo		📃 Enterprise poin
Max du	ation 0 🐥 Seconds 👻	📝 Log data
Max sar	nples 0	Perform
		Perform and verify O None
Safety point:		Unsigned writes
Availability tri	gger:	Invert
Allebute cel		
Annound sec		

Step 3. Run a Runtime Application to Display Point Values

When you are working with the DGR, point values that display in either live or DGR mode display on runtime applications.

- Example: CimView
- Example: Trend chart

Example: CimView

During live runtime, a CimView screen displays logged and non-logged values, as follows.



	Value Type	Logged	Display
А	Point	Yes	Yes
в	Point	No	Yes
С	Point attribute	Yes	Yes

	Value Type	Logged	Display
D	Point attribute	No	Yes

Example: Trend Chart

During live runtime, a Trend chart displays logged and non-logged values as follows.



	Value Type	Logged
A	Point	No
в	Points	Yes
С	Legend	No and Yes

DGR Operation

DGR Operation

Operating the DGR is straightforward.

Note: Make sure the DGR project is running.

<u>Step 1</u> <u>(page</u> <u>172)</u>	Open the DGR.
<u>Step 2</u> <u>(page</u> <u>173)</u>	Start Historical Replay mode.

<u>Step 3</u> <u>(page</u> <u>176)</u>	Set the start date and time.
<u>Step 4</u> <u>(page</u> <u>177)</u>	Select playback speed.
<u>Step 5</u> <u>(page</u> <u>179)</u>	View playback.
<u>Step 6</u> <u>(page</u> <u>193)</u>	Exit the DGR.

When you are in DGR mode you can view the date and time that data was logged in the DGR Date Time box.

At any time you can switch back to Live mode.

Step 1. Open the DGR

- 1. Make sure the project is running.
- 2. Select **Computer>DGR** in the Workbench left pane.
- 3. Select **DGR** in the right pane.
- 4. Do one of the following.



В	Click the Properties button on the Workbench toolbar.		
С	In the Workbench left pane:		
	Either	Or	
	Double click DGR .	a. Right-click DGR.b. Select Properties on the Popup menu.	
D	In the Workbench right pane:		
	Either	Or	
	Double click DGR .	a. Right-click DGR.b. Select Properties on the Popup menu.	
E	Press Alt+Enter on the keyboard.		

- 5. Right-click **DGR**.
- 6. Select Properties on the Popup menu.
- 7. Right-click **DGR**.
- 8. Select Properties on the Popup menu.

Step 2. Start Historical Replay Mode

- Historical Replay Mode startup.
- Start Historical Replay Mode examples.

Historical Replay Mode Startup

Check Historical Replay on the CIMPLICITY DGR.

C Live 🥜 Historical Re	offine
Start date: Start time: 3/18/2011 11:14:44 AM	Set Start Date and Time
End date: End time: 3/18/2011 / 12:14:44 PM	Set End Date and Time
DGR Date Time Display:	
	Search Citeria

Result: The DGR does the following.

А	Switches to DGR mode.		
в	Adds points.		
	MPLICITY DGR		
	C Live C Historic B Adding Points Time Definition Start date: 3/18/2011 10.44.43 AM Set Start Date and Time End date: End time: 3/18/2011 11:44.43 AM Set End Date and Time		
	DGR Date Time Display: Playback Speed 1.000×		
	Jog Interval (r1 s) 1.0 i Enable Stor Search i Enable Stor Search i I Enable Stor Search i I Enable Stor Search Point Cond. Value I I I I I I I I I I I I I I I I I I I		
C D	Displays the status as Stopped. Enables the Play buttons.		
a a	MPLICITY DGR		
	Mode C Live @ Historica		
в	B Stat take Stat time: 3/18/2011 ▼ 11:37.25 AM Set Stat Date and Time End date: End time: 3/18/2011 ▼ 11:32.55 AM Set End time: Set End Date and Time		
DGR Date Time Display: 03-18-2011 07:41:30 Playback Speed: 100.000 X			
	Jog Interval (x1 s) E 1.0 M Point Cond. Value Point Cond. Value Point Cond. Value Value Value		
_			
Е	Turns off point displays in runtime user applications.		

Start Historical Replay Mode Examples

• CimView.

• Trend chart.

CimView

The values in CimView revert to the default text that was entered when:

- CimEdit was being configured.
- Attribute values were entered in the Point Properties dialog box, e.g. Alarm High and Alarm Low values.



Trend Chart

The Trend is stopped. Lines that were drawn during live runtime remain until Historical playback begins.



! Important: DGR mode only affects user applications, e.g. CimView, Point Control Panel. CIMPLICITY resident processes, e.g. **PTDL**, **EMRP**, are not affected.

The Alarm Viewer continues to display live data.

Step 3. Set the Start and Stop Date and Time

The following **data** and **time** fields on the CIMPLICITY DGR selects the playback start and end date and time.



	Feature	Description	
А	Start date	Month/day/year to start the DGR replay.	
		Note: Click the Down arrow to the right of the Start Date field to select a date from a calendar.	
		March, 2011 Sun Mon Tue Wed Thu Fi 27 28 1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 78 19 20 21 22 23 25 26 27 28 29 30 3 1 2 3 4 5 6 7 8 9 Today: 3/18/2011 15 16 7 17	
в	Start time	Hour:Minute:Second to start DGR replay.	
С	Set Start Date and Time	Click to set the start date and time.	

	Feature	Description	
D	End date	Month/day/year to end the DGR replay.	
		Note: Click the Down arrow to the right of the Start Date field to select a date from a calendar.	
		March, 2011 > Sun Mon Tue Wed Thu Fill Sat 27 28 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 78 19 19 20 21 22 23 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 C1 22 23 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 C1 7 28 29 30 7 1 2 3 4 5 6 7 8 9 C1 Today: 3/18/2011 1 2 3 15 16 17 19 19 20 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1	
Е	End time	Hour:Minute:Second to end DGR replay.	
F	Set End Date and Time	Click to set the end date and time.	

Result: The DGR loads the values of the points at that time. Clicking the Play button starts playing back updates.

Step 4. Select Playback Speed

The Playback speed box on the left of the CIMPLICITY DGR enables you to specify the speed that the data should be played back.

Slide the slider to the speed that you want the data to play back.

The speed changes as the slider is moved.

- Speed range
- Procedure to select the exact playback speed

Speed Range

The range of speed choices is as follows.

	CIMPLICITY DGR			
	C Li	ve 🕫 Historical Replay	Paused	
	Time Defi Start date 3/18/2 End date 3/18/2	nition c Start time: 011 - 11:38:31 AM	Set Start Date and Ti Set End Date and Ti	ime
		DGR Date Time Display:	03-18-2011 11:40:1	18
	Playback Spe	B	Enable Start Search * Con Enable Stop Search & Conc # Conc # Conc	d. Value
А	Lowest	0.002X of normal	speed	
В	Normal	1.000X		
С	Highest	100.000X the norn	nal speed	

Note: The actual speed, which is also driven by your system hardware and setup, may vary slightly from the indicated selection.

Procedure to Select the Exact Playback Speed

1. Click the Pause button.

Note: You can click the Stop button if you want the DGR to return to the playback start.

2. Move the slider to the speed or close to the speed you want.



3. (When the speed is close to what you want) press the arrow keys on the keyboard to select the exact playback speed.

Right arrow key

Each time you press the right arrow key the speed increases 0.100x

Continue to press the right arrow key until the speed you want displays as the playback speed.



Left arrow key

Each time you press the left arrow key the speed decreases 0.100X.

Continue to press the left arrow key until the speed you want displays as the playback speed.



Step 5. View Playback

Step 5. View Playback

The DGR provides several options for starting and stopping playback.

Options include the following.

<u>Option</u> <u>5.1 (page</u> <u>180)</u>	Manually control playback.
<u>Option</u> <u>5.2 (page</u> <u>185)</u>	Use jog interval.
<u>Option</u> <u>5.3 (page</u> <u>187)</u>	Enable start search.
<u>Option</u> <u>5.4 (page</u> <u>190)</u>	Enable stop search.

Note: In order for DGR playback to take advantage of microsecond logging, the following logging application versions are required.

SQL Server	At least SQL Server 2008.
Historian	Historian v4.5 or higher.
Option 5.1. Manually Control Playback

1. Enter a date and time in the **Start date** and **Start time** fields when the DGR is in DGR mode.

The DGR is ready for playback.

2. Use the playback buttons as follows.

Button		Action
(page 180)		The DGR begins playback from the start date/time.
(page 182)	Pause	Playback pauses. When you click the Play button to resume, the DGR begins playing from where it paused. It does not go back to the beginning.
(page 183)	Stop	The DGR stops and goes back to the start playback point.
	Play	

Click the Play button.

The CIMPLICITY DGR does the following.

CIMPLICITY DGR		
C Live & Historical Replay	A Playing	
Time Definition		
Start date: Start time: 3/18/2011 11:38:11 AM	Set Start Date and Time	
End date: End time: 3/18/2011 1:18:11 PM	Set End Date and Time	
DGR Date Time Display.	03-18-2011 11:38:12	
Playback Speed: 1.000 X		
]]		
	Frankle Start Search	
	Point Cond. Value	
Jog Interval (x1s)	* <u> </u>	
	Enable Stop Search	
, i i i i i i i i i i i i i i i i i i i	conc. vaue	
	,,	

А	Reports that playback is in progress.
В	Disables the Start/End date and Start/End time fields. Note: Start and end dates and/or time cannot be changed while the DGR is playing.
С	Displays the playback date and time in the DGR Date Time Display box. Note: Applications that display timestamps, e.g. Trend, will play back millisecond or microsecond time.
D	Disables the Enable Start Search (page 187) and Enable Stop Search (page 190) checkboxes.
Е	Disables the Jog Interval options.

Note: Note: Start and End date and time fields are disabled.

Example: CimView during DGR playback

During playback, CimView displays the logged and non-logged values as follows.



		Either			
		Logged to	Logged to	Value Pla	ayed Back
	Value Type	SQL	Historian	SQL	Historian
А	Points	Yes	Yes	Logged	Logged
в	Points	No	No	None	None
С	Point or class attributes	Yes	NA	Logged	Current
D	Point or class attributes	No	NA*	Current	Current

*Point ID and TIMESTAMP are the only attributes that are logged to Historian.

Example: Trend Chart during DGR Playback

The Trend chart displays the values for the selected historical playback, as follows.

Note: Playback reflects the speed with which data was collected. DGR supports microseconds.



Click the Pause button.

the DGR dialog box does the following.



А	Reports that playback is paused.
В	Disables the Start/End date and Start/End time fields. Note: Start and end dates and/or time cannot be changed while the DGR is paused.
С	Displays the paused date and time in the DGR Date Time Display box. Note: When playback is resumed, it resumes from the paused date and time.
D	Enables the Enable Stop Search (page 190) checkbox.

E Enables the **Jog Interval** options.

Runtime applications pause playback and continue to display the values that were found when Pause was clicked.

Example: CimView

DGR.cim	
File View Help	
HEAT01	HEAT04

A	A Values that are found when DGR stops continue to display until DGR is re-started. When DGR restarts the star values that display are based on either the same or new search criteria.	
в	Disabled fields represent unavailable values.	

Example: Trend

Note: The word Paused displays on the Trend chart when the DGR is paused.



Values that are found when DGR is paused continue to display until DGR is re-started.

When DGR restarts Trend continues the historical playback.



Click the Stop button.

The DGR dialog box does the following.



А	Reports that playback is stopped.		
В	Enables the Start/End date and Start/End time fields. Note: When playback is restarted, DGR does one of the following.		
	 Rewinds to the original start time and starts playing again. Starts from a new date and time in the Start date and Start time fields. 		
С	Displays the paused date and time in the DGR Date Time Display box, if the DGR has been running. Note: When DGR is restarted, it restarts from the stopped date and time.		
D	Enables the Enable Start Search (page 187) and Enable Stop Search (page 190) checkboxes.		
Е	Enables the Jog Interval options.		

Runtime applications stop playback and continue to display the values that were found when Stop was clicked.

Example: CimView

At the time DGR is stopped and still in Historical mode, CimView displays values that were found.



A Values that are found when DGR stops continue to display until DGR is re-started. When DGR restarts the start values that display are based on either the same or new search criteria.
 B Disabled fields represent unavailable values.

Example: Trend when DGR is Stopped

Note: When the DGR is stopped, the word Stopped displays on the Trend chart.



Values that are found when DGR is stopped continue to display until DGR is re-started.

When DGR restarts Trend continues the historical playback.

Option 5.2. Use Jog Interval

A Jog feature plays the indicated interval every time it is pressed. This allows a user to step through the data time slice by time slice utilizing the visualization of CimView.

- Jog definition.
- Jog playing.

• Single jog completed.

Jog Definition

Anytime that the DGR is in Stopped or

IMPLICITY DGR	
Mode C Live I Historical Replay	A Stopped
Time Definition	
Start date: Start time: 3/18/2011 11:38:04 AM	Set Start Date and Time
End date: End time: 3/18/2011 • 12:41:04 PM •	Set End Date and Time
DGR Date Time Display:	B 03-18-2011 11:38:14
Playback Speed: 0.948×	
	Search Criteria
g Interval (x1 s):	Enable Stop Search
1.0	Point Cond. Value

A	Status Field/ Buttons	Report that playback is stopped.	
В	DGR Date Time Display	Displays the stopped date and time in the DGR Date Time Display box. Note: When playback is resumed, it starts from the stopped date and time, if the times have not been changed in the Start/End date and Start/End time fields.	
С	Jog Interval	Defines the jog interval length. The acceptable range is:	
		Minimum	0.001 second
		Default	1.0 second
D	Jog button	Starts the jog.	

Jog Playing

When the Jog button is clicked CIMPLICITY DGR plays for the specified jog interval.

DGR displays, as follows.

A Playing
Set Start Date and Time
Set End Date and Time
B 03-18-2011 11:38:12
Search Criteria Enable Start Search Point Cond. Value

А	Status Field/Buttons	Report that playback is playing
В	DGR Date Time Display	Displays the playback date and time in the DGR Date Time Display box.
С	Jog interval/button	Disabled.

= Note:

- The jog can be stopped at any time. If it is stopped, the job interval can be changed. The new interval will be used when the jog is restarted.
- While DGR is jogging, the timestamps for points that have been logged using milliseconds or microseconds display that progress in any application, e.g. Trend, that displays timestamps.

Single Jog Completed

When the single jog is complete, the DGR resumes Paused mode.

- The Jog button can be clicked again to start the next jog.
- Any criteria can be changed before a new jog is initiated.

Option 5.3. Enable Start Search

The DGR can stop its search when a point value fulfills a specified criterion; it can then be paused and restarted from that point to find the next instance for the same criterion or the first instance for a new criterion.

Note: Playback can be manually paused or stopped using the Pause or Stop buttons.

<u>A</u> <u>(page</u> <u>188)</u>	Enable Start Search criteria.
<u>B</u> <u>(page</u> <u>188)</u>	Review Start Search playback.
<u>C</u> <u>(page</u> <u>189)</u>	Pause of stop playback.

1. Enable Start Search criteria

Enter the following.

CIMPLICITY DGR		
Mode C Live I Historical Repl	ay Stoppe	d
Time Definition		
Start date: Start time: 3/18/2011 • 11:38:45 AM	Set Start Date as	nd Time
End date: End time:		
3/18/2011 ▼ 1:02:45 PM	Set End Date ar	nd Time
DGR Date Time Display:		
Playback Speed: 1.000 X		
	Enable Start Sea	rch
Jog Interval (x1s):	Point	Cond. Value
1.0 📔 🝳	LEVELT201	> 🔻 500
	🔲 Enable Stop Sea	rch
	Point	Cond. Value
		= -

1	Check Enable Start Search. The Start Search fields are enabled. Entries are as follows.		
2	Field Description		
	Point Point ID that DGR should look for.		
	Cond Condition options are: > = < Example LEVELT201 is a point in the DGR project. LEVELT201>500 is entered as the Enable Start Search condition.		
	Value The value (in relation to the condition) that, when found, will start the DGR playback.		

1. Review Start Search playback

The DGR does the following.

1. Searches for the first instance that fulfills the condition.

Note: While the DGR is searching for the first instance, the playback status is STOPPED. However, the DGR Date Time Display indicates the hour:minutes:seconds as the search progresses.

2. When DGR finds the first instance that fulfills the condition, DGR does the following.



1	Changes the selected Start date and/or Start time to display the time that the playback actually starts.
2	Shows that it is playing Note: Playback values display in runtime applications, e.g. CimView.
3	Displays the date and time playback status. Note: The playback <u>speed (page 177)</u> can be changed at any time.
4	Disables the Enable Start Search fields.

Example

The selected application to display values, e.g. CimView, displays logged values starting from the date and time the DGR finds the value LEVELT201>500.

a. Pause or Stop Playback

DGR provides several methods to pause or stop playback; DGR does the following based on what you do.

• Enter criteria in the Enable Stop Search fields before you start playback.

DGR pauses when the Stop Search criteria are met.

- Click <u>Stop (page 183)</u>.
- Do the following.

- 1. Click Pause.
- 2. Enter criteria in the Enable Stop Search fields.
- 3. Click Start.

DGR starts from the paused date and time and stops when the stop search criteria are met.

Option 5.4. Enable Stop Search

The DGR can stop its search when a point value fulfills a specified criterion; it can then be paused and restarted from that point to find the next instance for the same criterion or the first instance for a new criterion.

<u>A</u> <u>(page</u> <u>190)</u>	Enable Stop Search criteria.
<u>B</u> (page 191)	Review Stop Search playback.
<u>C</u> <u>(page</u> <u>192)</u>	Resume playback.

1. Enable Stop Search criteria

Enter the following.

CIMPLICITY DGR		
C Live @ Historica	l Replay	Stopped
Time Definition Start date: Start time: 3/18/2011 11:38:45	AM 🗄	Set Start Date and Time
End date: End time: 3/18/2011 • 1:02.45	PM	Set End Date and Time
DGR Date Time D	isplay.	
Playback Speed: 1.000>	Search	h Criteria
	🗆 Ena	able Start Search
Jog Interval (x1s):	Point	Cond. Value
	\land 🔽 Ena	able Stop Search
	Point B LEVEL	Cond. Value

1 Check Enable Stop Search. The **Stop Search** fields are enabled. Entries are as follows.

	2	Field	Description
Ī		Point	Point ID that DGR should look for.
		Cond	Condition options are: > = < Example LEVELRT201 is a point in a DGR project. LEVELT201>500 is entered as the Enable Stop Search condition.
Ī		Value	The value (in relation to the condition) that, when found, will start the DGR playback.

1. Review Stop Search playback

The DGR does the following.

Searches for the first instance that fulfills the condition.

Mode C Live C Historical Replay	2 Playing
Time Definition	
Start date: Start time: 3/18/2011 11:36:47 AM	Set Start Date and Time
End date: End time: 3/18/2011 1:51:47 PM	Set End Date and Time
DGR Date Time Display:	3 03-18-2011 11:36:49
Playback Speed: 1.000 X	
<u> </u>	
<u> </u>	Search Criteria
2 IIII	Search Criteria Enable Start Search Point Cond. Value Puint Puint

1	Starts its search at the selected Start date and Start time.
2	While playing searches for the first instance of a value that fulfills the Stop Search criteria.
3	Displays the date and time playback status. Note: The <u>playback speed (page 177)</u> can be changed at any time.
4	Disables the Enable Stop Search fields.

When DGR finds the first instance that fulfills the condition, DGR does the following.

CIMPLICITY DGR	×
C Live C Historical Replay	1 Paused
Time Definition	
Start date: Start time: 3/18/2011 11:38:31 AM	Set Start Date and Time
End date: End time: 3/18/2011 - 12:58:31 PM	Set End Date and Time
DGR Date Time Display:	2 03-18-2011 11:40:18
Playback Speed 1.000X	••••••
	Search Criteria
Jog Interval (x1s):	Enable Stop Search
	3 Point Cond. Value LEVELT201 . 500
Pauses the play	
Displays the data a	nd time the pause occurre
1	

3 Enables the **Enable Stop Search** fields.

Pauses the value display in the runtime applications, e.g. CimView.

Example

The DGR pauses the runtime display when it finds the value LEVELT201>500.

1. Resume Playback

When the DGR stops the search, you can do any of the following.

• Click Start.

Result: DGR resumes playback to find the next instance that fulfills the current condition.

• Enter a new condition in the Enable Stop Search fields; click Start.

Result: DGR resumes playback from the stop search point to find the first instance of a new condition.

• Clear the Enable Stop Search checkbox; click Start.

Result: DGR resumes normal playback from the paused point.

• Click Stop.

Result: DGR rewinds to the Start data and Start time ready to resume the playback type from the beginning.

Step 6. Exit the DGR

Do the following to resume normal operation.

€ Live C Historical Replay	Offline	
fime Definition		
Start date: Start time:	Set Stat Data and Time	
3/18/2011 Y 11:36:47 AM	Set Start Dave and Time	
3/18/2011 1:51:47 PM	Set End Date and Time	
DGR Date Time Display:	03-18-2011 11:40:18	
Playback Speed: 1.000X	Search Criteria	
Pisyback Speed 1.000X	Search Criteria	
Pisyback Speed: 1.000X	Search Criteria	
Pisyback Speed: 1.000X	Search Criteria Finable Start Search Point Cond. Value Finable Stop Search Point Cond. Value	
Playback Speed: 1.000X	Search Criteria Finable Start Search Point Cond. Value Finable Stop Search Point Cond. Value [LEVELT201] y y 500	
Playback Speed: 1.000 X	Search Criteria	
Pisyback Speed 1.000X	Search Criteria Image: First Search Point Cond. Value Image: First Stop Search Point Cond. Value Point Cond. Value Image: First Stop Search Stop	

BCheck Live in the Mode box.CClick the Exit button on the top right of the DGR.

Result: The following happens.

- The DGR closes.
- Runtime applications display real time values.

Technical Notes about DGR Functionality

DGR Functionality Technical Notes

The following sections provide technical notes about DGR functionality.

GefVCRService and the GefVCRControlApp.

- Context of DGR Mode.
- VCRServer.cfg file.
- Point attributes.

GefVCRService and the GefVCRControlApp

Dynamic Graphical Replay consists of the GefVCRService and the GefVCRControlApp.

It works by letting supported client applications connect to an alternate data source, the GefVCRService.

The GefVCRControlApp controls point data source switching, playback of data, and searching.

Use the **GefVCRControlApp** to switch from the live Point Manager connection to the historical **GefVCRService** connection. This puts the local node in DGR mode.

Once the switch to DGR mode is complete, the **GefVCRControlApp** provides the means to send commands to the **GefVCRService.** Commands can include functions such as setting the start time for replaying data; start, stop and pause of data replay; controlling the speed of the data replay and searching for when a point value meets a specified condition.

When the **GefVCRService** receives the commands it queries the CIMPLICITY Database Logging default point logging table (DATA_LOG) for the historical point values and notifies CimView of changes in point values during replay.

When you finish replaying data, use the **GefVCRControlApp** to switch your local node back to Live mode..

Context of DGR Mode

When you switch to DGR mode,

- All supported client applications on the local node switch to DGR mode.
- If you have more than one CimView screen open all of the screens will be switched.
- If you have other CIMPLICITY client applications running on the local node (e.g. Point Control Panel, Quick Trends, etc.) those connections will also be switched to DGR mode.

There is no way to control which client applications should switch and which should not.

• The switch over to DGR mode is local to the node. This means that several viewers can switch in and out of DGR mode without affecting each other.

You can safely run CimView screens in DGR mode on a CIMPLICITY server because only client applications are switched into DGR mode. Your project's runtime processes such as the Event Manager and Database Logging will remain connected to the live Point Manager.

- When DGR switches from Live mode to Historical Replay mode, it builds a list of the points and point configurations used in each CimView screen. This point list is saved when you switch from Historical Replay to Live mode, so they can be reused when you switch back from Live mode to Historical Replay mode.
- There may be an issue with the Windows firewall where it prevents SQL from running DGR on a Viewer. If the Viewer appears to hang, adding the sqlbrowser.exe file and path to the Windows Firewall exception list may solve the issue.

Point and Class Attributes

Dynamic Graphical Replay provides limited support for point attributes (e.g. time stamp, resource, etc.). The point attributes that are supported include only those accessible from the CIMPLICITY Point Browser's tree view.

Historical values (if available)	Some point attributes can be logged to the DATA_LOG table as follows.	
	If Attributes are:	DGR Displays:
	Configured for logging to the SQL DATA_LOG table,	The following attributes are logged to the SQL database. Point Value Prev. Value Raw value Alarm state Resource Time last Logged Engineering Units Quality User flags These attributes will be replayed from SQL database Attributes other than these point attributes will be replayed from project configured data.
	Not configured for logging	Current value.

Point attributes in DGR that are supported are supported in one of the following ways.

Currently configured value	 Some point attributes cannot be logged to the DATA_LOG table. Generally speaking, these attributes are set at configuration time only and don't change over time.
	The currently configured value for these attributes will be displayed in DGR mode.
	 The only attributes logged to Historian are POINT_ID and TIMESTAMP. DGR displays the currently configured value for all other attributes associated with points that are logged to Historian.

VCRServer.cfg File

For Projects logging to SQL only:

Before the **GefVCRService** can make queries for historical data it must know how to connect to the actual data archive. Information needed to make the connection includes the name of the node where the database server is running and which database on the server holds the DATA_LOG table.

In order to get this information, the service must be able to connect to and login to each CIMPLICITY project of interest. You provide the CIMPLICITY login information to the service with the **VCR Server.cfg** file, located in the data directory of your CIMPLICITY installation.

The format of this file is as follows.

```
<project name1>|<userid>|<password>
<project name2>|<userid>|<password>
.
.
```

DGR Limitations

1. Active-X controls, including CIMPLICITY Active-X controls (e.g. Alarm Viewer and SPC) will not replay in DGR mode. Putting a screen with an Alarm Viewer control may cause the Alarm Viewer to malfunction.

Note: The Trend Active-X control does work with DGR.

- 2. DGR cannot replay array points and may malfunction as a result of attempting to do so.
- 3. The DGR does not replay BYTE, WORD and DWORD points; however it does not generate errors. (Historian).
- 4. The following attributes are not supported in DGR mode.

- analog_deadband_n
- deviation_ptid
- setpt_check_ptid
- extended_user_flags_high
- extended_user_flags_log