

PROFICY® SOFTWARE & SERVICES CIMPLICITY

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.



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 Con- trol)	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.

CIMPLICITY® Login - TRK61	×
User ID : ADMINISTRATOR	OK
Password :	Cancel
🔲 Save User ID + Password	Help

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.

Step 1	Start the Login Panel.
(on page	
10)	

Step 2 (on page 13)	Administer the Login Panel.
Step 3 (on page 17)	Log out of a project through the Login panel.
Step 4 (on page 18)	Log back into a project through the Login pan- el.

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.



Α	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 Pan- el.	a. Right-click Login Panel . b. Select Properties on the Popup menu.	
D	In the Workbench right pane:		
	Either	Or	
	Double click Login Pan- el.	a. Right-click Login Panel . b. Select Properties on the Popup menu.	
E	Press Alt+Enter on the keyboard.		

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.

LoginPanel X				
⚠	CIMPLICITY is not running. Program will exit.			
	ОК			

- 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

File Edit Project View Help					
lode	Project	User	Status	Туре	
SERVER1	LOGIN1	OPER1	Logged In	User	
SERVER2	LOGIN2	ADMIN2	Logged In	User	
SERVER3	LOGIN3	ADMIN3	Logged In	User	

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:

Step 2.1 (on page 13)	Change a user password for a project.
Step 2.2 (on 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.

블 Login P	anel			
File Edit	Project View H	elp .		
약 암 [📔 Login			
Node	Logout		Status	Туре
SERVER2	<u>⊂</u> hange Passw	ord. 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	*****	

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

4. Click either:

ОК	Accepts the new pass- word
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	OK
Password :	*****	Cancel
Save Us	er 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 Saved Logins dialog box (on page 17) 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	ct View Help			
Saved L	.ogins ┥			
Node	Project	User	Status	Туре
SERVER3	LOGIN3	ADMIN3	Logged In	User
SERVER1	LOGIN1	OPER1	Logged In	User
SERVER2	LOGIN2	ADMIN2	Logged In	User
•				F
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N. //

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

2. Click either of the following.

Saved Logir	15		×
Project	User	A	Close
LOGIN1	OPER1		Add
LOGIN2	ADMIN2		Remove

- 1. #unique_12_Connect_42_AAdd (on page 16)
- 2. #unique_12_Connect_42_BRemove (on page 17)

Α	Add
---	-----

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. <b>Tip:</b> Use the drop-down list button to dis- play 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:

OK 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.

В	Re-
	move

- 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.

📃 Login Pa	nel			_ 🗆 ×
File Edit F	Project View He	elp .		
A 7	≥ Login			
Node 🙂	Log <u>o</u> ut Change Passw	ord	Status	Туре
SERVER1	LOGIN3	ADMIN3	Logged In Logged In	User User
SERVER2	LOGIN2	ADMIN2	Logged In	User
•				
				CAP NL //

А	Click the Log out button on the Login Panel toolbar.
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				
Fil	e Edit	Project View	Help			
A		B Login				
	ode	Logout Change Pas	sword	Status	Туре	
S	ERVER1	LOGINI		Logged Out	User	
	ERVER3 ERVER2		ADMIN3	Logged In Logged Out	User User	
					CAP	

- A Click the Log in button on the Login Panel toolbar.
- B 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 User ID + Password	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.



- 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 Pan-	
	el.	

#### Edit menu

Saved Logins

The Edit menu functions are:

Saved Logins Opens the Saved Logins dialog box.

#### **Project menu**

Login... Log<u>o</u>ut <u>C</u>hange 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 Pass- word	Enables you to change your password for the selected project.	

#### View menu



The View menu functions are:

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

#### Help menu

<u>H</u> elp Topics	
About LoginPanel	

The Help menu functions are:

Help Topics	Opens the Help window for the Login Panel.	
About Login Pan-	Displays the current version number for the Login Panel utili-	
el	ty.	

## Login Panel Toolbar Buttons

The Toolbar buttons available to you are:

	Login	Opens the Login dialog box for the selected project.	
	Logout	Logs you out of the selected project.	
	About	Displays the title, version number and copyright information for the Login Pan-	
		el	

## 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

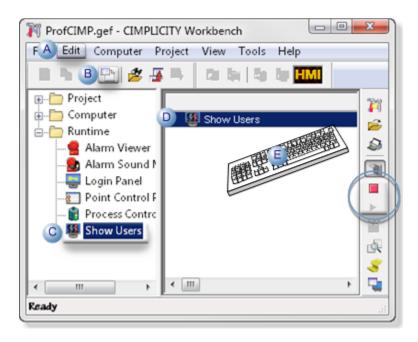
Following are steps to get CIMPLICITY user information:

Step 1 (on page 22)	Start Show Users.
Step 2 (on page 24)	Change Show Users view options.
Step 3 (on page 25)	Open a Project in Show Users.
Step 4 (on page 28)	Search for user information.
Step 5 (on page 29)	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



А	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 <b>Show Users</b> .		
		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.			
Е	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:

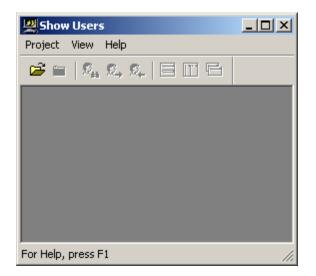
• If no project or more than one project is running.

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 ☑ On user logout	Cancel

- 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:
  - $\circ$  Click OK to close the dialog box and save your changes, or
  - $\circ$  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.

Option 3.1 (on page 26)	Open a project that was recently opened.
Option 3.2	Open a project that was not recently
(on page	opened.
26)	

## 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			_ 🗆 X
<u>P</u> roject <u>S</u> earch <u>V</u> iew <u>W</u>	indow <u>H</u> elp		
🖻 🗀   🗞 🎗 🖓   [			
EIMP_S90@NODE3			
User ID	Role	Node	Process
ADMINISTRATOR	SYSMGR	NODE3	00017xRZ
For Help, press F1			11.

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.

Open			×
<u>P</u> roject: <u>N</u> ode:	CIMPDEM0 NODE5		Open Cancel
Project	:	Node	
	-	NODE1 NODE2 NODE3 NODE4	
CIMPD DASHB OPC_S ORAP	EMO OARD ERVER LINK ARMBLINKER67890	NODES NODE6 NODE7 NODE8 NODE9 NODE10	
			<u>.</u>

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.



E	<mark>∛Show Users - CIMPD</mark> ?roject <u>S</u> earch <u>V</u> iew <u>∖</u>	<u> M</u> indow <u>H</u> elp	5				<u>- 🗆 ×</u>
	差 🖿   🔩 🎭 🎭						-
	🛃 CIMP_S90@NODE3	1				_ 🗆 ×	
ŀ	User ID ADMINISTRATOR	Role SYSMGR	Nod		Proce 00017		
	📙 CIMPDEMO@NOD	)E5				l. l	- 🗆 ×
	User ID	Role		Node		Process	
	ADMINISTRATOR ADMINISTRATOR	SYSMGR SYSMGR		NODE5 NODE3		0000tY1{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,
  - $\circ$  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:	<b>_</b>	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.
  - $\circ$  Double-click on the Control button for the project.
  - $\circ$  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

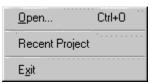
#### Show Users Menu Options

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**



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>I</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



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 utili- ty.

#### Search Menu

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

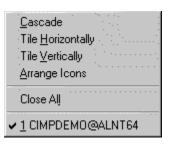
<u>S</u> earch Ctrl+S	
Next Ctrl+N	· · ·
Previous Ctrl+P	

Feature	Description
Search	Displays the Search dialog box.

Feature	Description
Next	Displays the next line of user information that meets the search criteria.
Previ-	Displays the pr evious line of user information that meets the search crite-
ous	ria.

#### 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 Hori- zontally	Tiles the currently open project windows horizontally.	
Tile Vertical- ly	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 dialog box.
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 changes.
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 Setup (*on page 131*) and Toggle (*on page 157*) buttons for dynamic view.)
- Take advantage of CimView features, e.g. the zoom screen capability.
- Use the horizontal scroll bar to scroll horizontally to view all the enabled fields of the Alarm Viewer without having to resize the window.

#### Note:

The horizontal scroll bar is disabled by default for an AMVOCX (Alarm Viewer Control). To enable the horizontal scroll bar for Alarm Viewer Control, you must enable the checkbox **Enable auto horizontal scrollbar visibility** in the **Display** tab of AMV Control Properties. The selection is applied to both static and dynamic mode.

File View Help				- C	×
	, + > 🛃 🔍 🖻				
📂 🕹 KY	<u> </u>	N 🚾 🔨 🚈 🛛			
Project	Name	Alarm ID	Resource ID	Class	Date
PLANT	PROJEC	Pressure_Tanks	TANKS	HIGH	Jun 03
PLANT	_PROJEC	Pressure_Mixing	MIXING	HIGH	Jun 03
4					
	01-1-		0		
Project	State	Count Date/Time			
FIRST	Failing Over		-		
PLANT_PF	Connected	2 Jun 03 09:	3< <unfilter< td=""><td>E</td><td></td></unfilter<>	E	
	Ack	Reset Delete			
2 Jun 03 09	9:32 Tog	gle Setup Refr	resh Help	View Sta	ack nm

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 -	CIMPLIC	CITY AI	arm Viewer			_ 🗆 ×
<u>File E</u> dit <u>V</u> iew <u>Log</u>	jin! <u>C</u> onfij	gure <u>H</u> e	elp			
🗅 🗳 🖬   🖻	<b>a k</b> ?					
Alarm ID	Date	Time	Duration	Ac	k Resource ID	Class
TANK_1.LEVEL	Feb 12	11:57	00:45	N	\$SYSTEM	HI( 🔺
TANK_3.LEVEL	Feb 12	11:57	00:45	N	\$SYSTEM	HIC
MCP_PROC_DOWN	Feb 12	11:30	28:43	N	\$SYSTEM	HIE
PROCESS_VISCOS	TFeb 12	11:30	00:03	Ν	PLANT_PROC	ESSHIC
MCP_PROC_DOWN	Feb 12	11:29	28:57	N	\$SYSTEM	HIE
PROCESS_TEMPER	I/Feb 12	11:29	00:03	N	PLANT_PROC	ESSHIC
MCP_PROC_DOWN	Feb 12	11:29	29:00	N	\$SYSTEM	HIE
MCP_PROC_DOWN		11:29	29:03	N	\$SYSTEM	HIE
MCP_PROC_DOWN		11:29	29:03	N	\$SYSTEM	HIE
MCP_PROC_DOWN		11:29	29:04	N	\$SYSTEM	HIE
MCP_PROC_DOWN		11:29	29:07	N	\$SYSTEM	HIC
TANK_2.LEVEL	Feb 12	11:29	29:11	N	\$SYSTEM	LO
<u>S90_575</u>	Feb 12	11:29	29:11	N	90-30	
MCP PROC DOWN	Feb 12	11:29	29:11	N	\$SYSTEM	HIE
21 Feb 12 11:58	Togg	le	Setup			
For Help, press F1					Local	

## Note:

A horizontal scroll bar is displayed in Runtime Alarm Viewer Application that enables you to scroll horizontally to view all the enabled fields of the Alarm Viewer without having to

resize the window. The horizontal scroll bar is always enabled in both static and dynamic mode for the Runtime Alarm Viewer Application.

•								
Untitled - CIMPLICITY	Y Alarm Viewer					—		$\times$
File Edit View Logi	n! Configure He	lp						
D 🖻 🖬   🖿   🅭	₩?							
Alarm ID	Resource ID	Class	Date	Time	State	Ack		
Velocity_Mixing Velocity Alarm	MIXING	HIGH	Jun 03	10:41	ALARM	N		
Temperature_Mixing Temperature Alarm	g MIXING	HIGH	Jun 03	10:40	ALARM	N		
Pressure_Tanks	TANKS	HIGH	Jun 03	09:32	ALARM	N		
tank pressure alarm Pressure_Mixing	MIXING	HIGH	Jun 03	09:31	ALARM	N		
Pressure Alarm								
<								>
	Help Setup	Refresh	Vie	w Stac	k Co	mments	Tog	gle
4 Jun 03 10:41	Ack Reset	Delete	Ack a	nd Res	et Ac	k First	Ack A	II
For Help, press F1					PLANT_PR	OJECT_1	Cor	nnec
					_	-		

# AMV Control Configuration

### AMV Control Configuration

Steps to configure the AMV Control include:

Step 1 (on page 39)	Place an AMV Control on a CimEdit screen.
Step 2 (on page 41)	Resize a new Alarm Viewer OCX Control.
Step 3 (on page 44)	Open the CIMPLICITY AMV Control dialog box.

Step 4 (on page 45)	Configure the AMV Control alarm count layout.
Step 5 (on page 47)	Configure the AMV Control fonts and colors.
Step 6 (on page 52)	Specify the AMV Control sort properties.
Step 7 (on page 58)	Specify AMV Control display properties.
Step 8 (on page 61)	Specify the AMV Control user configuration privi- leges.
Step 9 (on page 65)	Specify the projects the AMV Control will monitor.
More (on page 106)	Steps to configure Alarm Viewer fields and buttons.

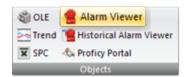
### Step 1. Place an AMV Control on a CimEdit Screen

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.

		GmEdit1* - GmEdit		
Home Drawing	P Format Arrange			
Resize Q Zoom	/ Line Rectangle @	Picture 🔝 Button	S OLE	😫 Alarm Viewer
Reshape 💽 Tab Order	C Polyline J Arc O	Diject T Text	Per Trend	📲 Historical Alarm Viewe
Rotate 🔒 Tool Lock	C Polygon C Chord	Class	T SPC	-C. Proficy Portal
Edit	Shapes	Illustrations Text	1	Objects
Project Name	Alarm ID	Date Time	State	A
▼	Ack Reset Dele	əte		-
Jan 29 01:27			View St	ack
Jan 29 01:27			View St	ack

Click the OLE button

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

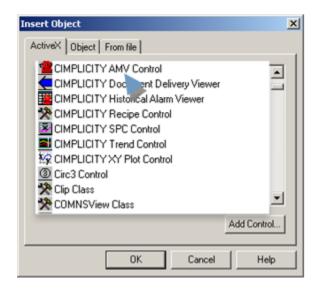


An ActiveX Placement cursor displays on the CimEdit screen.

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.



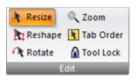
### Step 2. Resize a new Alarm Viewer OCX Control

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.

		OmEdit1* - OmEdit		_ = X
Home Drawing	Format Arrange			0
Resize C Zoom	✓ Line □ Rectangle 2	) Picture 🔝 Button	🖏 OLE 🤮 Alarm V	lewer
Reshape 💽 Tab Order	☑ Polyline J Arc C	Object T Text	Trend 🦉 Historia	al Alarm Viewer
🕂 Rotate 🛛 Tool Lock	☐ Polygon		🕱 SPC 🗠 Proficy	
Edit	Shapes	Bustrations Text	Object	•
Project Na	me Alarm ID	Date	Time State	A
		,		
	Ack Rese	t Delete		- 10
0 Jan 29 01:29	Toggle	etup Refresh	Help View 3	Sta C
For Help, press F1		472,-1 0,1	80 450+150	Version 12 all

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

Note: The screen displays the following.

	c	imEdit1* - CimEdit	_ = ×
Home Drawing	Format Arrange		0
Resize Com	✓ Line □ Rectangle □ □ Polyline J Arc ○	Picture A Button	CLE Alarm Viewer
🕂 Rotate 🔒 Tool Lock	☐ Polygon	Class	🕱 SPC 🗠 Proficy Portal
Edit	Shapes	Illustrations Text	Objects
Project Name	Alarm ID	Date Time St	ate A State A
0 Jan 2909:37 0 Jan 29 09:3	Toggle Setup		Help View Str
-			<b>.</b>
For Help, press F1		472,-1 0,11	0 450x150 Version: 42 .d

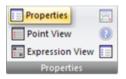
A The handle that is being dragged changes to a crosshair.
 B The original size displays within the original handles during the re-sizing process.
 C The Alarm Viewer's new size display follows the cursor.

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.
  - $\circ$  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.

Colors Geometry General Movement Scaling	Position Top: Left:	165 pt	Width:	
General Movement Scaling		165 pt	Width:	[aaa
Movement Scaling	alt		TT FOR T	360 pt
Scaling	Leit.	30 pt	Height:	155pt
Rotation/Fill	Rotation			
	Angle:	0		
Color Animation	/ertical shear:	0		
Transparency H	forizontal shear:	0		
Events				
Script				
Variables				
Menus				
Procedures				
Control Properties				
	ОК	Cancel Appl	Help	1

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.

Field	Description
Left	Number of points starting from the left of the screen where the left side of the AMV Con- trol 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.

Conducts*-Con Nume Drawing Research Arrange Research Arrange Research Research Array Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Res	der	
0 Jan 29 01:29 Toggle Setup	Cut Copy Paste CIMPLICITY AMV Control Object	Edit
For Hop, pers 13	Point View Expression View Point Control Panel QuickTrends	Properties Convert
	Help Properties	

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

CIMPLICITY A	MV Control P	Properties 🔫		×
Count Lay Fields	out   I Buttons	Date Format Projects	Fonts Display	Colors Sorting
⊠ 1 Star ⊠ 1 Proj ⊠ 1 Alar	nment cked iect Name m ID source ID is	-	Position Lef Position Rig Row Up Row Down Modify	
C Dynam	Nic OK	Cancel	Apply	Help

## 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 Cont	rol Properties		×
Fields Butto Count Layout 1 Position ↓ I op of screen ↓ Center count 2 Orientation ← Horizontal ← Vertical	ons Projects Date Format 3 Fields	_	Sorting Colors Nove Up
OK	Cancel	Apply	Help

- 1. #unique_38_Connect_42_i1Position (on page 46)
- 2. #unique_38_Connect_42_i2Orientation (on page 46)
- 3. #unique_38_Connect_42_i3Fields (on page 47)

1 (on	Position
page	
46)	

2 (on page	Orientation
46) 3 (on	Fields
page 47)	

1	Posi-
	tion

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 Con- trol.	Clear	Clear
Upper left-hand corner of the AMV Control.	Check	Clear
Centered at the top of the AMV Control.	Check	Check
Note: Center count is enabled when you chec	k Top of screer	1.

2 Orientation

Choose one of the following.

Horizon- tal	Side by side in the order you specify.
Vertical	One on top of the other in the order you speci- fy.

3 Fields

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

0 Mar 8 12:55				
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
   Alarm
- Button
- Count
- $\circ$  Date
- Status
- 2. Select a feature.
- 3. Click Font...

IPLICITY AMV	Control Pro	Projects	Display	Sorting
Count Layou	t Dat	e Format	Fonts	Colors
Text Alarm Button Count Date Status	Font Arial Arial Arial Arial Arial	Size 14 14 14 14 14 14		Eont
	ОК	Cancel	Apply	Help

The font dialog box opens.

4. Make the customary font selections.

ont				? ×
Eont: Arial O Arial Black O Arial Narrow O Arial Unicode MS O Book Antigua O Book Antigua O Bookshelf Symbol 7	Font style: Regular Italic Bold Bold Italic	Size: 8 9 10 11 12 14 16	1	OK Cancel
Effects	Sample AaBbYyZ	z	-	
This is an OpenType font. This printer and your screen.	Western Hebrew Arabic Greek - Turkish Baltic		•	
	Central European Cyrillic Vietnamese			

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.

Fields	Control Prope Buttons	erties Projects	Display	2 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 8 8		Eont
	ОК	Cancel	Apply	Help

The selected fonts and sizes display in the AMV Control.

🗸 AMV_OCX.cim		
File View Help		
🖻 🎒 隆 😫 🐛 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	N DB_CONN_DOWN	ALARM
Mar 08 17:01 ALARMS	N TR175	ALARM
Mar 08 17:01 ALARMS	N TR165	ALARM
Mar 08 17:01 ALARMS	N TRI50	ALARM .
N. 00 17 01 01 0010	N TEAP	
Ack Reset Delete		-
Toggle Setup Help	View Stack Comments	
For Help, press F1		

AMV Control Colors

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

Selections are as follows.

CIMPLICITY AMV Control Properties Fields Buttons Projects	Display	× Sorting
Count Layout Date Format Property Name: AlarmBGColor System Color: Active Border Scroll Bars Window Background Window Frame Window Text	Fonts	Colors
OK Cancel	Apply	Help

1 (on	Property name
page	
50)	
2 (on	Color for selected property
page	
51)	

### 1 Property name

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

Selections are as follows.

Listed Property	Property
AlarmBGColor	Alarm list back- ground
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
	3 3
Active Title Bar	<ul> <li>Inactive Border</li> </ul>
Active Title Bar Text	<ul> <li>Inactive Title Bar</li> </ul>
<ul> <li>Application Work-</li> </ul>	<ul> <li>Inactive Title Bar</li> </ul>
space	Text
Button Face	• Menu Bar
Button Highlight	• Menu Text
Button Shadow	Scroll Bars
Button Text	Window Background
• Desktop	• Window Frame
Disabled Text	Window Text
<ul> <li>Highlight</li> </ul>	

1. Click Apply.

Select a color in the palette

1. Click a color in the palette.

C	IMPLICITY AMV Contro	ol Properties		×
	Fields Button	- I referre	Display	Sorting
	Count Layout	Date Format	Fonts	Colors
	Property Name:			
	ButtonBGColor			
	System Color:			
L				
	OK.	Cancel	Apply	Help

1. Click Apply.

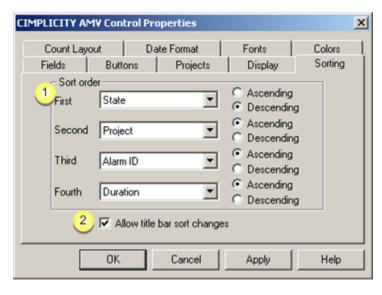
The selected properties will display during runtime in the selected colors.

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

### Step 6. Specify AMV Control Sort Properties

Select the Sorting tab in the CIMPLICITY AMV Control Properties dialog box.

Sorting options are as follows.



1 (on So	ort order.
----------	------------

page

53)

2 (on Allow title bar sort changes.

page

57)

```
1 Sort or-
der
```

The Alarm Viewer Control enables you to sort by four keys.

Sort order is, as labelled.

First

Second

Third

Fourth

Sort keys are:

Field	Description		
None	The primary sort is not used.		
	If the secondary key is used, it acts as the primary sort.		
Project	Alphabetically by Project Name.		
	Ascending	A is first.	
	Descending	A is last.	
Class	Sort order assigned to each Alarm Class in the Order field on the Alarm Class tab in the Alarm Class Configuration dialog box		
	Ascending	Highest level first.	
	Descending	Highest level last.	
Re-	Resource ID al	phabetical order.	
source			
	Ascending	A is first.	
	Descending	A is last.	
State	A combination	of their State and Ack Status.	

	Ascending	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.
	Descending	1. All unacknowledged alarms in ALARM state are last.
		1. All unacknowledged alarms in NORMAL state are next.
		1. All acknowledged alarms in ALARM state are first.
Time	Time of the ala	rm occurrence.
	Ascending	Most recent first.
	Descending	Most recent last.
	Ascending	A is first.
	Descending	Z is first.
Mes- sage	Alarm message	e contents alphabetical order.
Ack state	Acknowledgem	nent state.
	Ascending	Acknowledged alarms are last.
	Descending	Acknowledged alarms are first.
Stacked	Sorted/grouped	d by presence/absence of stacked alarms.
	Ascending	Stacked alarms are last.
	Descending	Stacked alarms are first.
Com- ment	Sorted/grouped	d by presence/absence of comments.
	Ascending	Commented alarms are last.
	Descending	Commented alarms are first.
Alarm ID	Alarm ID alpha	betical order.
	Ascending	A is first.
	Descending	A is last.

Duration In dynamic display mode, alarms are sorted by duration.

Note: This value is not available in static display mode, so alarms are sorted by time if this item is selected.

Ascending Longest duration is last.

Descending Longest duration is first.

Refer- Reference value alphabetical order.

#### ence

Ascending A is first.

Descending A is last.

Category Category value alphabetical order.

Ascending Discrete, Level, Syste
----------------------------------

Descending System, Level, Discrete

Condi- Condition alphabetical order.

tion

Ascending	Level, System, Trip
-----------	---------------------

Descending Trip, System, Level

Sub-con- Level condition dition

Ascending	Unavailable
	Normal
	Alarm Low
	Warning Low
	Warning High
	Alarm High
	Out of Range
Descending	Out of Range
	Alarm High

		Warning High
		Warning Low
		Alarm Low
		Normal
		Unavailable
	Trip condition	
	Ascending	Unavailable
		Normal
		Warning High
		Alarm High
		Out of Range
	Descending	Out of Range
		Alarm High
		Warning High
		Normal
		Unavailable
	System conditi	ons
	There is no sor	t order for System conditions (only one sub-condition).
Severity	Level of severit	у.
	Ascending	Most severe is last.
	Descending	Most severe is first.
Last Com- ment	Last comment	in alphabetical order
	Ascending	A is first.
	Descending	A is last.

Ack User Users who acknowledged the alarms in alphabetical order.

Ascending A is first. Descending A is last.

Default Time descending

If an order is not established between two alarms after applying the selected key criteria, Time descending will be used to try to establish an order.

Result: The alarms will be sorted in the order you specify when a user opens the AMV Control during runtime.

Important: Make sure the sort fields that you select on the Sort tab are selected on the Fields tab. If not, the alarms will be sorted according to your specifications. However, a CimView Alarm Viewer user will not be able to evaluate the sort.

You can specify whether or not the user has the privilege to change the sorted order.

2 Allow title bar sort changes.

Check Allow title bar sort changes to enable an operator to sort a selected column during runtime by clicking on the column heading.

One click can:

Sort a selected column (ascending).



Sort a selected column (descending).

👵 AMY_OCX.	cim			
<u>F</u> ile ⊻iew <u>H</u> e	lp			
🖻 🖨 🕅	1 ± /	1   🔳	•	
14 Aug 22 12:	49			
Alarm ID	Resource	ID Set	verity Class	Project N
ALM_RTE	TANK 🔺	100	HIGH	ALARMS
EIL_A	TANK T	50	TANK	ALARMS
FIL_A	TANK	100	TANK	ALARMS
AIL_A	SOUTH	100	TANK	ALARMS
ALM_RTD	SOUTH	100	LOW	ALARMS
CIL_A	SOUTH	50	MED	ALARMS
DIL A	SOUTH	50	MED	ALARMS
ALM_RTA	NORTH	100	LOW	ALARMS
AIM DTC	MODTU	100	1.0307	ALADMC
Toggle Ref	íresh S	etup	Ack Re:	set Dele

#### More information

AMV Alarm Fields (on	AMV Alarm fields.
page 114)	
AMV Control Configura-	AMV Control configura-
tion (on page 38)	tion.

## 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

CIMPLICITY AN	VV Control F	Properties		×
□ Sta	Buttons	Show ala Enable au Max dynamic 0	Fonts Display time popup <u>m</u> enu rm <u>c</u> lear time in view uto <u>h</u> orizontal scrollt alarm <u>c</u> ount: dynamic alarm list	
	ОК	Cancel	Apply	Help

1	Field titles	Display column titles. The column titles must display in order to allow users to sort by title during runtime, if enabled.		
2	Status box	Display a status box that provides infor- mation about the: • Project(s) • (Connected) State • (Alarm) Count per project, • Date/Time and • Setup (Filter being used).		
3	Begin in Static	Static mode (at startup).		
4	Show alarm clear time in view stack			
		Select when to provide a timestamp as follows.		
	Check	Provides time for when a value:		

		<ul> <li>Goes into Alarm state.</li> <li>Goes into Normal state (is cleared).</li> </ul>
	Clear	Provides the time for when a value goes into Alarm state.
5	Enable auto horizontal scrollbar visibil- ity	Enable the check box to show the horizon- tal scroll bar for an alarm viewer control. The check box is disabled by default.

### Runtime display example

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

AMV Control with all display features selected

lastcomment2.cim					-	o x
File View Help						
🧀 😂 🗤 🔶 🛧	5 Q 🛛 🛛	<b>X</b> 🔍 🖈 .				
Project Name	e Al	arm ID	Re	source ID	Class	Date
PLANT_PRO	JECPr	essure_Tank	s TAN	NKS	HIGH	Jun 03
PLANT_PRO	JECPr	essure_Mixir	ng MIX	(ING	HIGH	Jun 03
1						<u>•</u>
Project State		Count Date/	Time Se	tup		
FIRST Failing PLANT_PRConne	g Over ected	0 Jun 0 2 Jun 0		UNFILTE	RE	
	Ack		elete			
2 Jun 03 09:32	Toggl	e Setup	Refresh	Help	View St	ack hme
For Help, press F1						

AMV Control with no display features selected

Iastcomment2.cim	_	o x
File View Help		
PLANT_PROJECPressure_Tanks TANKS	HIGH	Jun 03
PLANT_PROJECPressure_Mixing MIXING	HIGH	Jun 03
Ack Reset Delete		
2 Jun 03 09:32 Toggle Setup Refresh Help	View S	tack
For Help, press 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.

CIMPLICITY AMV	Control Propert	ies		×
Count Layout Fields	Date For Buttons P	mat   rojects	Fonts   Display	Colors Sorting
Display ↓ Field to ↓ Status ↓ <u>B</u> egin	s bo <u>x</u>	Allow runtin	ne popup <u>m</u> eni	J
	OK Ca	ncel	Apply	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 run-
	time.

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.

Ble ⊻lew Partie			88				
Alam 10	Resource ID	Severity	Class	Project Name		ia. Th	e value 750 exceeded 1000/
ALM_RTB	TANK	100	HIGH	ALARMS			The value 9000 exceeded 50001
ALM_RTE BIL A	TANK NORTH TANK	100 100 50	HIGH ALOT TANK	ALARMS ALARMS ALARMS	ALM_RTE IS IN BIL AIS IN L	1	Add Project
	SOUTH SOUTH	100 50 50	TANK MED		CIL Ais in CIL Ais in CIL Ais in CIL	2 )	<u>R</u> emove Project
AM RTA	NORTH	100	LOW	ALARMS	ALM RTAIL	3	⊆opy Alarms
NM_RTD	SOUTH NORTH	100 100	LOW LOW	ALARMS ALARMS	ALM_RTD is ALM_RTF is P	3	Coby Midnis
SIL A	NORTH	100	\$\$75	ALAPMS	GIL Ais in 1	4	Use Ambient Properties
Project	State		Count	Oute/Time	Setup	5	Duranautica
ALARMS	Connected		14	Aug 22 13:26	< <unfilt,< td=""><td>ಲ</td><td>Properties</td></unfilt,<>	ಲ	Properties
							Point Control Panel
14 Aug 22 1	3:26 Toggle	Refrest	h	tup Ack	Reset		QuickTrends

1. Option 9.1. Add Projects and Default Filters to the AMV Control (on page 66)

2. Option 9.2. Delete Projects from the AMV Control List (on page 69)

3. #unique_42_Connect_42_i3Copy (on page 63)

4. #unique_42_Connect_42_i4Ambient (on page 64)

5. #unique_42_Connect_42_i5Properties (on page 65)

1 (on page 63)	Add Project.
2 (on page 63)	Remove Project.
3 (on page 63)	Copy Alarms
4 (on page 64)	Use Ambient Properties
5 (on page 65)	Properties

1 Add Project

Projects can be added to the Alarm Viewer Control before and during runtime (on page 68).



Projects can be removed from the Alarm Viewer Control before and during runtime *(on page 70)*.

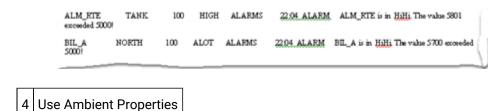
3 Copy Alarms

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.



Select Ambient Properties on the Popup menu.

The AMV Control display uses the CimEdit Ambient properties.

Eile ⊻iew <u>H</u> elp				_
🖆 🍯 餐 🛍 🛍	1 🔲 🔳 配			
14 Aug 23 22:4	46			
Alarm ID	Resource ID	Severity	Class	
AIL_A	SOUTH	100	TANK	
ALM_RTB	TANK	100	HIGH	,
ALM_RTE	TANK	100	ніен	1
BIL_A	NORTH	100	ALOT	/
Toggle Ret	fresh Setup	Ack Res	et Dela	ete

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

CIMPLICITY AMV Co	ntrol Propertie			×
Fields Bu	ttons Proj	ects Di	isplay	Sorting
Count Layout	Date Forma	t For	nts	Colors
Text Alarm Button Count Date Status		12	<u>Ε</u>	nt
01	Canc	el As	aply	Help

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



- 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.

CIMPLICITY AMV Con	trol Properties 📑		×
Count Layout	Date Format	Fonts	Colors
Fields Butt	ons Projects	Display	Sorting
<ul> <li>☐ 1 Alarm ID</li> <li>☐ 1 Resource ID</li> <li>☐ 1 Sevenity</li> <li>☐ 1 Class</li> <li>☐ 1 Project Name</li> <li>☐ 1 Time</li> </ul>		Position Left     Position Bigh     Row Up	*
Mode © Static © Dynamic		Row Down	
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 (on page 61).

Option 9.1 (on page 66)	Add projects and default filters to the AMV Con- trol.
Option 9.2 (on page 69)	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	1¥ Contr	ol Pro	operties				X	
Count Lay	out	Da	ate Format	1	Fonts	Colors	1	
Fields	Buttor	ns	Projects Display			Sorting	-Ĺ	
Project ALARMS CIMPDEMO NORTH_F		Setup ALAR ALAR 3	M1			dd Project elete Project <u>S</u> etup		
Connect to local project								
	0K		Cancel		Apply	Help		

- 1. #unique_46_Connect_42_i1connectLocal (on page 66)
- 2. #unique_46_Connect_42_i2Add (on page 67)
- 3. #unique_46_Connect_42_i2Add (on page 67)
- 4. #unique_46_Connect_42_i3SelectSetup (on page 67)
- 5. #unique_46_Connect_42_i3SelectSetup (on page 67)

1 (on page 66)	Connect to local project
2 (on page 67)	Add project
3 (on page 67)	(Optional) Select setup

1 Connect 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.

2 Add Project

Opens the Select Project dialog box.

Select Project		×
Project NORTH_F		[
ОК	Cancel	

- 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 AMV Control buttons (*on page 137*). 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. Right-click (on page 62) the Alarm Viewer OCX.

A Popup menu opens.

9. Select Add Project.

6	<b>?</b>   t., 1					
Alarm 10	Resource ID	Severity	Class	Project Name	Message	
UL A	SOUTH	100	TANK	ALARMS		p. The value 750 exceeded 10001
UM_RT8	TANK	100	HIGH	ALARMS		HiHi. The value 9800 exceeded 50001
UM_RTE	TANK	100	HIGH	ALARMS	ALM_RTE	
	NORTH	100	ALOT TANK	ALARMS ALARMS	BIL Air in	Add Project
IL A	TANK	100	TANK	AL ASSAS	FIL Ais in L	
A A	SOUTH	50	MED	ALARMS	CIL Ais in H	Remove Project
	SOUTH	50	MED	ALAPMS	DIL Aisin L	
UM_RTA	NORTH	100	LOW	ALARMS	ALM_RTAIL IN	⊆opy Alarms
MM_RTD	SOUTH	100	LOW	ALARMS	ALM_RTD is it	Coby Midnis
ALM_RTF	NORTH	100	LOW'	ALARMS	ALM_RTF is it -	
A A	NORTH	100	\$515	ALARMS	GIL Ais in H	Use Assistant Descention
						Use Ambient Properties
voject	State		Count	Oute/Time	Setup	
LARMS	Connected			Aug 22 13:26	CUNFILTE	Properties
4.040Mb	Connected			Pug 22 10:20	NUMPILIE .	
						Point Control Panel
	Toggle	Refres		tup Ack	Reset D	QuickTrends

The Select Project dialog box opens.

Select Project		×
Project NORTH_F	)	•
OK	Cancel	

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 Con	trol Properties		×
Count Layout Fields Butt	Date Format ons Projects	Fonts   Display	Colors Sorting
Project ALARMS CIMPDEMO NORTH_F	Setup ALARM1 ALARM3		dd Project lete Project Setup
Connect to local			
OK	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. Right-click (on page 62) the Alarm Viewer OCX

A popup menu appears.

6. Select Remove Project.

AMV_OCXStatus.cim						
Elle Yew H	elp					
🖻 🛎 K	?   t., 1					
Alarm 10	Resource ID	Severity	Class	Project Name	Message	
AL A	SOUTH	100	TANK	ALAPMS	AL Ais in Lota	b. The value 750 exceeded 1000f
ALM_RT8	TANK	100	HIGH	ALARMS		HHi. The value 9000 exceeded 50001
ALM_RTE	TANK	100	HIGH	ALARMS	ALM_RTE is in	
BIL A EIL A	NORTH	100	ALOT	ALARMS	BIL Air in H	Add Project
EIL A	TANK	50 100	TANK	ALARMS ALARMS	EL Aisin, L	
CIL A	SOUTH	50	MED	AL ARMS	CIL Ais in	Remove Project
DIL A	SOUTH	50	MED	ALARMS	DIL Ais in	
FIL A CIL A DIL A ALM_RTA	NORTH	100	LOW	ALARMS	ALM RTAIL IN	⊆opy Alarms
ALM_RTD	SOUTH	100	LOW	ALARMS	ALM_RTD is it	Coby Midnins
ALM_RTF	NORTH	100	LOW'	ALARMS	ALM_RTF is it -	
GIL A	NORTH	100	\$\$75	ALAPSKS	GIL Aisin H	
						Use Ambient Properties
Project	State		Count	lute/Time	Setup	
AL AFMS	Connected				CUNFILTE	Properties
PLAYMS	Connected		147	lug 22 13:26	CONFILTE	
						Point Control Panel
						i on a control i ditor
14 Aug 22 13:26 Toggle Refresh Setup Ack Reset D			QuickTrends			
14 Aug 22 13:26 Toggle Refresh Setup Ack Reset D QUICKTrends					Querriends	
For Help, press	F1					

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

Disconnect Project	×
Project: ALARMS CIMPDEMO NORTH_F TRK61	OK Cancel

- 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:

Step 1 (on page 72)	Start the stand-alone AMV.
Step 2 (on page 78)	Select an AMV file.
Step 3 (on page 82)	Configure the alarm count layout.
Step 4 (on page 89)	Select the alarm list font and background color.
Step 5 (on page 95)	Work with the Stand-alone AMV.
Step 6 (on page 100)	Specify how a Stand-alone AMV file will connect to a project.

Step 7 (on page 105)	Configure AMV fields and buttons.
Step 8 (on page 105)	Exit the Stand-alone AMV.
More (on page 106)	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:

Step 1.1 (on page 72)	Open the stand-alone AMV.
Step 1.2 (on page 75)	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:

Option 1.1.1	Configuration server/viewer,
(on page	or
73)	
Option 1.1.2	Runtime server/viewer.
(on page	
75)	

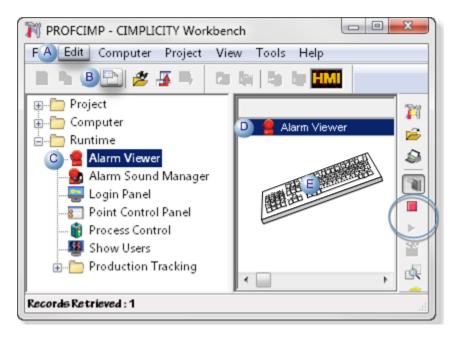
# Option 1.1.1. Open the stand-alone AMV on a Configuration Server or Viewer

Open the Alarm Viewer through the:

- Workbench.
- Start Menu.

Workbench

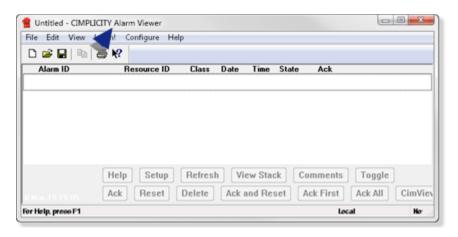
- 1. Make sure the CIMPLICITY project is running.
- 2. Select **Runtime>Alarm Viewer** in the Workbench left pane.
- 3. Do one of the following.



A	Click Edit>Properties on the Workbench menu bar.				
В	Click the Properties button on the Workbench toolbar.				
С	In the Workbench left pane: a. Right-click <b>Alarm Viewer</b> . b. Select Properties on the Popup menu.				
D	In the Workbench right pane:				
	Either Or				

	Double click Alarm View-	a. Right-click Alarm Viewer.				
	er.	b. Select Properties on the Popup menu				
Е	Press Alt+Enter on the keyb	ooard.				

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



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.

File Edit View	-	Viewer nfigure H	elo.			-	
		angure ri	ab				
Alarm ID	Re	source ID	Class	Date Time	State Ack		
	Help	Setup	Refresh	View Stac	k Comments	Toggle	
	Ack	Reset	Delete	Ack and Res	et Ack First	Ack All	CimViev
For Help, press F1					Les	sal	Ho

#### 7 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

1 (on page 75)	Start the Log in.
2 (on page 76)	(If the router is not running) start the router.
3 (on page 76)	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!	Configure Help							
🗅 🖻 🖬   🖬 📥	<b>N</b> ?							
Alarm ID	Resource ID	Class	Date	Time	State	Ack		

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.

Select CIMPLICITY® Project						
Project:	\projects\cimpdemo\CIMPDEMO.GEF	[	Start			
	D:\GE Fanuc\Proficy CIMPLICITY\proj	Ī	Cancel			
			Browse			
			Start as Viewer			

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	ОК
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
- ${}^{\circ}$  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		×
Project : cimpdemo		•
OK	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.

BUnt	💁 Untitled - CIMPLICITY Alarm Viewer										
File E	File Edit View Login! Configure Help										
Date	Time	Duration	AckAlar	m ID	Resource ID	Class	State	Mess			
Aug 18	16:36	04:10	N DB	CONN DOWN	\$SYSTEM	\$SYS	ALARM	1			
Aug 18	16:36	04:04	N DB	CONN_DOWN	\$SYSTEM	\$SYS	ALARM	1			
Aug 18	16:33	02:55	N MC	P_PROC_DOWN	\$SYSTEM	HIGH	ALARM	F			
Aug 18	16:32	03:30	N MC	P_PROC_DOWN	\$SYSTEM	HIGH	ALARM	F			
Aug 18	16:32	00:03	N PRO	DCESS_VISCOSIT	YPLANT_PROC	ESHIGH	NORMAL	. F			
Aug 18		00:03	<u>N PR(</u>	DCESS_TEMPER/	APLANT_PROC	<u>ESHIGH</u>	NORMAL	. F			
Aug 18	16:32	04:14	N TAN	NK_LEVEL	TANK	HIGH	ALARM	S 🖵 [			
8 Aug	8 Aug 18 16:36 Toggle Setup										
For Help	), press	F1				Local		0 //			

#### 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:

Option 2.1	Display a new Alarm Viewer file.
(on page	
78)	
Optiion 2.2	Open an existing Alarm Viewer file.
(on page	
79)	



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.

1       Untitled - CIMPLICITY Alarm Viewer         File       Edit       View       Login!       Configure       Help         Image: Second Secon		Stand-alone AM ¹ 1 Not saved. 2 Saved.	
* PROC Process V * PROC     □    □    □	i-2 at 902 90-20 s_Alarms.AMV - CIMP it View Login! Config ;		n Viewer
Alarm II S90-35 TANK_1 PROCE PROCE MCP_PI MCP_PI	)	State ALARM ALARM NORMAL NORMAL ALARM ALARM ALARM	HIGH * I HIGH 1

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:

Option 2.2.1 (on page 80)	Open a recently used Alarm Viewer file.
Option 2.2.2 (on page 81)	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.

S90Alarms.AMV	- CIMPLI	CITY AI	arm Viewei			
<u>File Edit View Loc</u>	qin! <u>C</u> onfi	qure H	elp			
🗅 🚅 🔛 📠	<i>≣</i> №					
Alarm ID	Date	Time	Duration	Ack	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_DOWN	Feb 12	11:30	28:43	N	\$SYSTEM	HIE
PROCESS_VISCOS	ITFeb 12	11:30	00:03	N	PLANT_PROC	CESSHIC
MCP_PROC_DOWN	Feb 12	11:29	28:57	N	\$SYSTEM	HIE
PROCESS_TEMPER	R/Feb 12	11:29	00:03	N	PLANT_PROC	CESSHIC
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_DOWN	Feb 12	11:29	29:07	N	\$SYSTEM	HIE
TANK_2.LEVEL	Feb 12	11:29	29:11	N	\$SYSTEM	L01
<u>\$90_575</u>	Feb 12	11:29	29:11	N	90-30	LO1
MCP PROC DOWN	Feb 12	11:29	29:11	<u>N</u>	\$SYSTEM	HIC
21 Feb 12 11:58	Togg	le	Setup			
For Help, press F1					Local	

Saved Alarm Viewer File: Example

# 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 on the stand-alone AMV toolbar.

Method 3

Press Ctrl+O on the keyboard.

The Open dialog box opens when you use any method.

Open				? ×
Look jn:	🔁 Screens	- 🗈	<b>C</b>	
CIMPLICIT GECIMPLI GROAlarms 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.

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

Saved Alarm Viewer	File [.]	Example
<u>Daveu Alanni viewer</u>	T IIC.	LAampie

💁 S90Alarms.AM\	/ - CIMPLIC	CITY AL	arm Viewer	)		<u> </u>
<u>File Edit View L</u>	ogin! <u>C</u> onfid	qure H	elp			
	<b>A</b> NO			·····		
🗅 🚅 🔚   📠						
Alarm ID	Date	Time	Duration	Ac	k Nesource ID	Class
TANK 1.LEVEL	Feb 12	11:57	00:45	N	\$SYSTEM	HI( 🔺
TANK_3.LEVEL	Feb 12	11:57	00:45	N	\$SYSTEM	HIG
MCP_PROC_DOW	N Feb 12	11:30	28:43	N	\$SYSTEM	HIE
PROCESS_VISCO	SITFeb 12	11:30	00:03	N	PLANT_PROC	ESSHIC
MCP_PROC_DOW	'N Feb 12	11:29	28:57	N	\$SYSTEM	HIC
PROCESS_TEMPI	ER/Feb 12	11:29	00:03	N	PLANT_PROC	ESSHIC
MCP_PROC_DOW	N Feb 12	11:29	29:00	N	\$SYSTEM	HIE
MCP_PROC_DOW	N Feb 12	11:29	29:03	N	\$SYSTEM	HIC
MCP_PROC_DOW	N Feb 12	11:29	29:03	N	\$SYSTEM	HIE
MCP_PROC_DOW	N Feb 12	11:29	29:04	N	\$SYSTEM	HIC
MCP_PROC_DOW	N Feb 12	11:29	29:07	N	\$SYSTEM	HIE
TANK_2.LEVEL	Feb 12	11:29	29:11	N	\$SYSTEM	L01
<u>590_575</u>	Feb 12	11:29	29:11	N	90-30	LO'
MCP PROC DOW	'N 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:

Step 3.1 (on page 83)	Open the Alarm Count Configuration dialog box.
Step 3.2 (on page 84)	Specify the layout of the count information.
Step3.3 (on page 86)	Select the alarm count colors.
Step 3.4 (on page 87)	Select the alarm count fonts.

# Step 3.1. Open the Alarm Count Configuration Dialog Box

- 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 Down
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 Alarm at Top of Screen	<ul> <li>Orientation</li> <li>Orizontal</li> <li>Orizontal</li> </ul>
Fields Count Date Time	Move Up Move Down
	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 View- er.
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
Horizon- tal	Side by side in the order you specify.
Vertical	One on top of the other in the order you speci- fy.

- 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 Configuration	×
Layout Colors Fonts	
Unseen Alarm Count: 📕	Color
Seen Alarm Count:	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.



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	х
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			? ×
Eont: MS Sans Serif MS Serif 따 MT Extra 다 Rockwell 다 Rockwell Extra Bold	Font style: Bold Regular Italic Bold Bold Italic	Size: 8 8 10 12 14	OK Cancel
"∰ Rockwell Extra Bold Roman Script ▼	Sample AaBbYyZ:	18 24	
	Script: Western	2 	

- 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:

Step 4.1 (on page 90)	Select the font type for the alarm list
Step 4.2 (on page 92)	Select the stand-alone AMVa background col- or.
Step 4.3 (on page 94)	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.

n List Configuratio	)n	
Button Layout	General	Date/Time Formal Color and Font
Font		
Name: MS Sans Ser	if 🔪	
Size: 8		
Font		
ackground Color:	-	
Color		
ок	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 style: Bold	<u>S</u> ize:	ОК
Regular Italic Bold Bold Italic	8 10 12 14 18 24	Cancel
Sample AaBbYyZ	z	
Script: Western	•	
	Bold Regular Italic Bold Bold Italic Sample AaBbYyZ Script:	Bold 8 Regular 8 10 10 12 14 18 24 Sample AaBbYyZz Script:

- 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.

Alarm List Configuration	on		×
Button Layout Fields	General	Date/Time Format Color and Font	1
Fields Font Name: MS Sans Ser Size: 8 Font Background Color:			
	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.

Color	? ×
Basic colors:	N
<u>C</u> ustom colors:	
Define Custom Colors >>	
OK Cancel	

- 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 standalone AMV button area.

2. Click Color.

A Color Palette displays.

Color	? ×
Basic colors:	19. A
Custom colors:	and the second
Define Custom Colors >>	
OK 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:

Option 5.1	Copy an alarm to another document.
(on page	
96)	
Option 5.2	Print an Alarm Viewer document.
(on page	
97)	

ī

Option 5.3	Save an Alarm Viewer file.
(on page	
99)	

#### 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

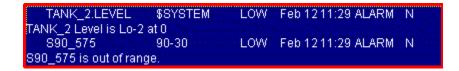
Press Ctrl+C on the keyboard.

- 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:

Option 5.2.1 (on page 97)	Preview a document before it is print- ed.
Option 5.2.2 (on page 98)	Specify the printer and setup.
Option 5.2.3 (on page 98)	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 <b>Zoom in</b> on the toolbar.	
Zoom out	Press Alt and Right-click the mouse, or	

То	Action	
	Click <b>Zoom out</b> on the toolbar.	
Go to the previous page	Click <b>Prev Page</b> on the toolbar	
Go to the next page	Click Next Page on the toolbar	
Display one page	Click <b>One Page</b> . This button is active when two pages are display- ing.	
Display two pages	Click <b>Two Pages</b> . 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.



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

Option 5.3.1 (on page 99)	Save the original stand-alone AMV file.
Option 5.3.2 (on page 100)	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.

Step 6.1 (on page 101)	Select the project that will be connected.
Step 6.2 (on page 103)	Specify the placement of the stand-alone AMV window.

Step 6.3	(Optional) Install a shortcut of the stand-alone AMV file.
(on page	
104)	

#### 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.

	1	e i De	
Fields Button Layout	General	Color and For Date/Tim	
Connection			
C. Conrect to <u>L</u> oca	l Proect		
Browse for system	n when connec	ting	
◯ <u>S</u> elect Project N	ow		
igstern:			
Window Flascment			
Always On Top			
🗖 Boha la Taplania	ew Alarms		
······		·····	· · · · · · · · · · · · · · ·
OK	Carcel	2000	Help

Select a specific project to connect or let the user select the project on startup..

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 systemwhen 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	1	•
ОК	Cancel	
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.

Select Project Now			
System;	CLIENT_SERVER	-	
i de conserver	CLIENT_SERVER		
WINDOWI	DASHBOARD EVA4 BCS		
Alway	EXCHMON FUNKY_LOGGING		
Pop to	GEFSOI	-	

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.

Fields		Color and Font
Button Layout	General	Date/Time Format
Connection		
Connect to Loca	l Project	
Browse for system	m when connec	ing
Select Project N	ow	
iystem:		
Window Placement		
Always On Top		
Always On Top	ew Alarms	
	ew 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 Desktop The Constraint Menu User 1 Desktop The Constraint Menu	
New <u>F</u> older	
OK Cancel	Help

- 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

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 systemwhen 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 fields and buttons configuration (*on page 106*) 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 🗵

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.  $\ensuremath{\textbf{Cancel}}$  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.

Step 1 (on page 106)	Select the AMV Control/AMV alarm list fields.
Step 2 (on page 117)	Select the button display for the AMV Con- trol/AMV.
Step 3 (on page 130)	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:

Step 1.1	Display the Fields tab (in the AMV Control/AMV Properties dialog
(on page	box).
107)	

Step 1.2 (on page 108)	Select fields for static view.
Step 1.3 (on page 109)	Select fields for dynamic view.
Step 1.4 (on page 110)	Configure the field display order for each view.
Step 1.5 (on page 111)	Specify field column widths and titles.
Step 1.6 (on page 112)	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	Display the Fields tab in the CIMPLICITY AMV Control Properties dialog box (AMV Object).
1.1.1 (on	
page 107)	
Option	Display the Fields tab in the Alarm List Configuration dialog box (stand-alone Alarm View-
1.1.2 (on	er).
page 108)	

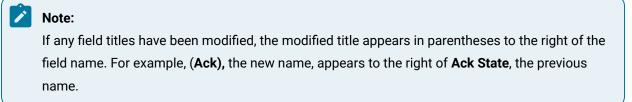
Option 1.1.1. Display the Fields Tab in the CIMPLICITY AMV Control Properties Dialog Box

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.



# 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.

<ul> <li>☐ 1 Comment</li> <li>☐ 1 Stacked</li> <li>☐ 1 Project Name</li> <li>☐ 1 Alarm ID</li> <li>☐ 1 Resource ID</li> <li>☐ 1 Class</li> </ul>	Fields: 1 Comment 1 Stacked 1 Project Name 1 Alarm ID 1 Alarm ID 1 Resource ID 1 Class 1 Date 1 Date 1 Time 1 State 1 Ack State (Ack)
	Display Field Titles

A CIMPLICITY AMV Control Properties dialog boxB Alarm List Configuration 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.

1 Comment     1 Stacked     1 Date     1 Time     1 Duration     1 Project Name     Mode     C Static     Dynamic ▲	Fields: 1 Date 1 Time 1 Duration 1 Project Name 1 Ack State (Ack) 1 Alarm ID 1 Resource ID 1 Class 1 State 1 Reference
	Display Field Titles

A CIMPLICITY AMV Control Properties dialog boxB 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.

But- ton	Each Click Moves the Field
Posi-	One column left.
tion	
Left	

But- ton	Each Click Moves the Field
Posi- tion Right	One column right.
Row Up	Up one row, to the furthest left position in an alarm's message area. <b>Note:</b> 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 <b>Row Up</b> once. The Alarm ID appears in the first row, furthest left position of each alarm's message. <b>Row</b> <b>Up</b> 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 <b>Row Down</b> twice. The Alarm ID appears in the third row of each alarm's message.

## Step 1.5. Specify the Field Properties

Columns in the AMV Control/AMV adhere to the properties that you specify for the fields that are in the first row. You can associate the properties with any field. The properties 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 X		×
Length:	8 characters	ОК
<u>T</u> itle:	Class	Cancel
Enable right to left text		

- 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. Select the check box **Enable right to left text** if the field should display text in one of the Right to Left Languages/Scripts. This option renders the right to left languages correctly, and also right aligns the text.
- 6. Click either:
  - $\circ~\text{OK}$  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 **WWWWW**. 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 dis- played.
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:

- $\circ$  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 ze- ro.
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.
<b>P, A, p</b> , or <b>a</b>	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
Com- ment	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.

Field/ Column	Description
Project Name	Name of the CIMPLICITY project generating the alarm.
Alarm ID	Identifier of the alarm.
Re- source 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:
	<ul> <li>Alarm generation time.</li> <li>In the Alarm Viewer OCX, the time is either the: <ul> <li>Alarm generation time</li> <li>Alarm generation time and Alarm cleared (Normal) time</li> </ul> </li> <li>Tip: Select what time will display on the Display (on page 58) tab in the CIMPLICITY AMV Control Properties dialog box.</li> </ul>
State	Current State of the alarm.
Ack State (Ack)	Boolean value that indicates whether an alarm has been acknowledged or not.
Ack User	The user who acknowledged the alarm.
0000	Note: Available only in the Alarm Viewer control in CimEdit.
Last Com-	The latest comment entered for the alarm.
ment	Note: Available only in the Alarm Viewer control in CimEdit.

Field/ Column	Description	
Refer- ence	Reference identifier for the alarm, used to distinguish to identical alarms.	
Severity	A number that indicates the importan the state. CIMPLICITY treats more se	ce of the alarm; the higher the Severity the more severe vere alarms with a higher priority.
Catego- ry	(AMV Control Properties only) The name of the general category for the generated alarm: Lev- el, Discrete, or System.	
	<ul> <li>Level is generated by non Bool</li> <li>Discrete is generated by Boole</li> <li>System is generated by all alar</li> </ul>	an point alarms.
Condi- tion	(AMV Control Properties only) The condition for the generated alarm's Category. Each Catego- ry currently has a Condition that qualifies the type of alarm.	
	Condition	Generated for
	Level	Level alarms
	Trip	Discrete alarms
	System	System alarms
Sub- condi- tion	(AMV Control Properties only) A specific Subcondition that further qualifies the alarm's Condi- tion. For Level and Trip conditions, the Subcondition column displays a state string associat- ed with the alarm's State. For the System condition, this column displays "System."	
Mes- sage	The alarm Message. This message contains the fixed text for the alarm and optional informa- tion for the run-time parameters.	
	This field normally appears as the firs AMV.	st field in the list area below the column headers in the
De-	The description of the alarm.	
scrip- tion	For Point Alarms, this is the Point Description.	
	For Event Alarms, this is the Alarm De	finition 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:

Step 2.1 (on page 118)	Display the Buttons or Button Layout tab (for AMV Control or AMV).
Step 2.2 (on page 120)	Select buttons for static view.
Step 2.3 (on page 121)	Select buttons for dynamic view.
Step 2.4 (on page 122)	Create custom buttons.

Step 2.5 (on page 128)	Configure the button display order for each view.
Step 2.6 (on page 129)	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 (on page 118)	AMV Control.
	Display the Buttons tab in the CIMPLICITY AMV Control Properties dialog box.
Option 2.1.2 (on page 119)	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 A	M¥ Control	Properties		×
Count Lay Fields	out   Buttons	Date Format Projects	Fonts   Display	Colors Sorting
	ete	2	Position Le Position Big Row Up Row Down	
	OK	Cancel	Apply	Help

# 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.

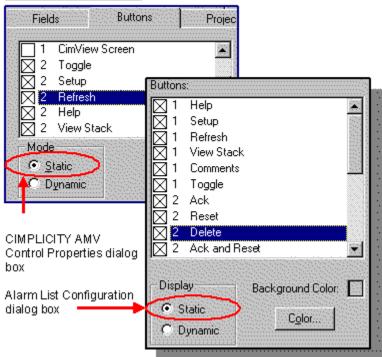
Alarm List Configura	tion		×
Fields Button Layout	   General	Color an	d Font   e/Time Format
Buttons:			
<ul> <li>☐ 1 Help</li> <li>☐ 1 Setup</li> <li>☐ 1 Refresh</li> <li>☐ 1 View Stack</li> <li>☐ 1 Comments</li> <li>☐ 1 Toggle</li> <li>☐ 2 Ack</li> <li>☐ 2 Reset</li> <li>☐ 2 Delete</li> <li>☐ 2 Ack and Reset</li> </ul>			Position Left Position Right Row Up Row Down Modify
Display Background Color:			
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



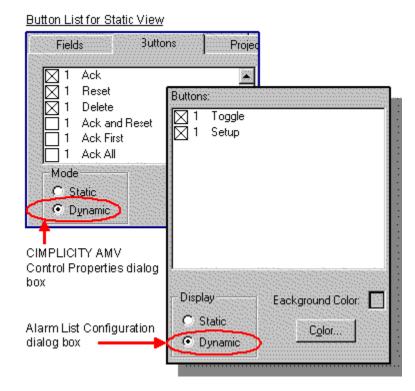
2. Check the buttons you want users to display.

#### 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.



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:	OK
Action	Cancel
Description:	
Execute External Custom Command	
Command string:	
8TIME	
○ Run program ⓒ Fire ActiveX event	

Field	Description
Button Caption	Caption that will display on the button
Descrip- tion	Brief description of the button purpose.
Com- mand string	Command string that will be executed when the button is clicked. <b>Note:</b> Check Run program in the AMV Control Button Caption dialog box.
Run pro- gram	Check to run the command string when the button is clicked.

Field	Description
Fire Ac- tiveX	(Alarm Viewer Control only) Use a CustomButton (on page 167) event.
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	<b>Y</b> or <b>N</b> , if selected alarm is acknowledged
%CATEGORY	OPC Category (on page 114): Level, Discrete, or System (AMV Control only)
%CONDITION	OPC Condition (on page 114): 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
%REFER-	Alarm reference identifier for the selected alarm
ENCE	
%REF	same as %REFERENCE
%MESSAGE	Alarm message for the selected alarm

Parameter	Value
%MSG	same as %MESSAGE
%LastCom- mentText	Latest comment entered for the alarm
%AckUser	User who acknowledged the alarm.
%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 Subcondition (on page 114) (AMV Control only).

#### Parameter for a selected alarm

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

Para- meter	Value
%SCREEN	Provide access to the screen associated with an alarm so that the user can run CimView us- ing 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 com- mand
%PRODUCT	CIMPLICITY distribution directory
%CIM	same as %PRODUCT
%DIRECTO- RY	CIMPLICITY project directory
%DIR	same as %DIRECTORY

Parameter	Value
%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 Button Caption (on page 122) 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.exe %Message		
Run program C Fire ActiveX event		

Field	Enter
But-	Message.
ton	

Field	Enter
cap- tion	
De- scrip- tion	Alarm message
Com- mand string	\ <project path="">\<project name="">\Scripts\GetMessage.exe %Message Where <project path&gt; is the full path to the project. <project name=""> is the project's name %Message is the Alarm Viewer Message (on page 124) 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.

🛃 Alarm¥iewer.cim				i i i i i i	1
File View Help					
😂   🎒 📢   🐛 1   🖿					
Time Ack Alarm ID	State	Message		1	
5:30 N DB_CONN_DOWN	ALARM	The process I	BasicScript		×
5:30 N DB_CONN_DOWN		The process I			
14:47 N PROCESS_VISCOSITY			CALL SUPER\	/ISOR: TANK7501	5000, Hi-2
14:47 N PROCESS_TEMPERA	NORMAL	Process Temp			
4:47 N TANK810	ALARM	CALL SUPERV	C	OK	
A N TANK750	ALARM	CALL SUPERV	$\sim$		
4:47 N TANK_LEVEL	ALARM :	Storage tank L	OW Level	M	
8 Feb 9 15:30 Toggle	Message	Ack	Delete Reset		
For Help, press F1			ſ		

A	Select an alarm ID.
В	Click Message.
С	A Basic Script message box displays the message specified for the alarm in the <b>Alarm Message</b> field.

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

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

#### Example

🛛 2 Custom1

2. Enter the following.

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

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.

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.

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

# 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.

Button Caption	×
Button caption:	<u>0</u> K
Delete	<u>C</u> ancel
Description:	
Manually delete the selected alarm(s)	
Command string;	

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

Button Caption	X
<u>B</u> utton caption:	<u>0</u> K
Custom1	Cancel
Description:	
Execute External Custom Command	
Co <u>m</u> mand string:	

- 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
⊠ 3	Custom1	(Notes)	Notes

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

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

Option 3.1 (on page 131)	Setup button: Configure AMV Control/Stand-alone AMV Alarm setups. <b>Note:</b> And <b>Setup</b> icon in the Workbench.
Option 3.2 (on page 152)	Ack and/or Reset buttons: Acknowledge and Reset alarms.

Option 3.3 (on page 156)	Help button: Using customized help.
Option 3.4 (on page 157)	Refresh button: Refresh the Alarm Viewer list.
Option 3.5 (on page 157)	Toggle button: Toggle between Alarm Viewer static and dynamic view.
Option 3.6 (on page 158)	View Stack button: Viewing the alarm stack.
Option 3.7 (on page 159)	Comments button: View alarm comments.
Option 3.8 (on page 165)	CimView screen button: View an alarm's CimView screen.
Option 3.9 (on page 166)	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:

Step 3.1.1 (on page 133)	Select a filter to load or to modify.
Step 3.1.2 (on page 135)	Modify the Alarm Viewer setup class list.
Step 3.1.3 (on page 136)	Modify the Alarm Viewer setup resource list.
Step 3.1.4 (on page 137)	Configure the AMV setup time, state and sort.
Step 3.1.5 (on page 143)	Modify the Alarm Viewer Setup String Filters
Step 3.1.6 (on page 147)	Create a new alarm filter setup.
Step 3.1.7 (on page 151)	Delete an alarm filter setup.
Step 3.1.8 (on page 152)	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	tups	×
A Project:	PROFCIMP	Done
B Setup:	REGION4	Save
	< <unfiltered>&gt; REGION3</unfiltered>	G Load
	TANKS	Delete
		Make Default
		G Modify Current
	1	

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 <b>Setup</b> field.		
С	Click one of the following buttons.		
	Load The setup loads in the Alarm Viewer. The Alarm List is re-filtered and re-dis- played.		

Modify Cur-	The Modify Setup dialog box opens. Continue to Step 3.1.2 (on page 135).
rent	

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.

Alarm Se	etups	×
A Setup:	REGION4	Done
	< <unfiltered>&gt; REGION3</unfiltered>	Save
	REGION4 TANKS	B Load
		Delete
		Make Default
		B Modify Current
	J	

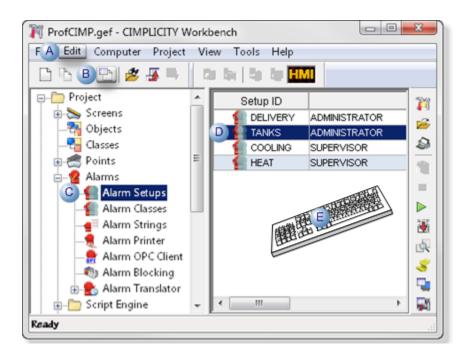
A	Select the alarm setup that will be loaded or modified. The setup name displays in the <b>Setup</b> field.		
В	Click one of the following buttons.		
	Load The setup loads in the Alarm Viewer. The Alarm List is re-filtered and re-dis- played.		
	Modify Cur- rentThe Modify Setup dialog box opens. Continue to Step 3.1.2 (on page 135).		

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.



А	Click Edit>Properties on the Workbench menu bar.		
В	Click the Properties button on the Workbench toolbar.		
С	In the Workbench left pan	e:	
	a. Right-click <b>Alarm Setups</b> . 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 Filte	er String Filters	Custom Attributes
HI	GH High W Low	Mgmt Alarms Priority Alarms Priority Alarms um Priority Alarms		Add All Remove All
	C	0K 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	3 (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 Resource	Time and State Filter	String Filters	Custom Attributes
SMAC_FR SPTM_FR SYSTEM		Add	
	OK Cancel	Apply	Help

А	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 setup.		
В	3 (Optional) Click one of the following to make global changes.			
	Add All Selects all resources		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:

Option 3.1.4.1	(For the AMV Control or Alarm Sound Manager (on page 197)) Configure
(on page	time/state criteria.
138)	

Option 3.1.4.2<br/>(n page(For the stand-alone AMV) Configure time/state/sort criteria.140)

## 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 Custom Attri	butes
Filter by time	
Select alarms since: Apr 24 2023 21 23 36	
Filter by state State Ack Status ✓ Alarm N ✓ Alarm Y ✓ Normal N	
OK Cancel Apply H	elp

- 1. #unique_121_Connect_42_CButtons (on page 140)
- 2. #unique_121_Connect_42_BState (on page 139)
- 3. #unique_121_Connect_42_ATime (on page 139)

A (on page	Filter by time.
139)	
B (on	Filter by state.
page	
139)	
C (on	Buttons
page	
140)	

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 <b>Select alarms since</b> 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	N	Display points in Alarm State that have not been acknowledged.
Alarm	Y	Display points in Alarm State that have been acknowledged.

State	Ack Status	Check to
Nor- mal	Ν	Display points that have returned to a normal state but have not been acknowl- edged.



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.



## 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.

Modify Setup		>
Classes Resources Time/S	itate/Sort	
Filter by Time		
Use Time Filter		
Select Alarms Since: Sep	19 2019 07 08 21	
Filter by State	Sort	
State Ack Status	by Time	
Alam N	O by Resource	
Alarm Y	O by State	
Normal N	O by Class	
OK	Cancel Apply	Help

1. #unique_123_Connect_42_CButtons (on page

)

- 2. #unique_123_Connect_42_BState (on page 142)
- 3. #unique_123_Connect_42_ATime (on page 141)

A (on page 141)	Filter by time.
B (on page 142)	Filter by state.
C (on page 142)	Buttons.
D (on page 143)	Sort.

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 <b>Select alarms since</b> 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	N	Display points in Alarm State that have not been acknowledged.
Alarm	Y	Display points in Alarm State that have been acknowledged.
Nor- mal	N	Display points that have returned to a normal state but have not been acknowl- edged.



#### 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.
Re- source	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	But-
	tons

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 Setup X					
Classes	Resources	Time ar	nd State Filter	String Filters	Custom Attributes
Alarm ID	) filter		<ul> <li>Substring</li> </ul>	○ Wildcard	◯ Regex
Alarm m	essage filter		<ul> <li>Substring</li> </ul>	⊖ Wildcard	◯ Regex
Alarm de	escription filte	r	<ul> <li>Substring</li> </ul>	⊖ Wildcard	Regex
	0	к	Cancel		Help

#### **String Filters**

ltem	Description		
Alarm ID filter	Enter the ID of the alarm that you want to filter using one of the string formats de- scribed below.		
Alarm message filter	Enter the message of the alarm that you want to filter using one of the string for- mats described below.		
Alarm description filter	Enter the description of the alarm that you want to filter using one of the string for- mats described below.		

### **String Filter Formats**

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

Item	Description	
Wild-	Enter a string containing a wildcard character based on which the alarm filter will be applied.	
card	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 dis- played.	
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 descrip-	
	tion, in the <b>Alarm description filter</b> box, select the <b>Regex</b> 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. Modify the Alarm Viewer Setup Custom Attributes

You can filter alarms based on Custom Attributes using substrings, wildcards, regular expressions, Any in set or All in set.

Modify Setup	×
Classes Resources Time and State Filter	String Filters Custom Attributes
Attribute 1:	Substring ~
Attribute 2:	Substring ~
Attribute 3:	Substring ~
Attribute 4:	Substring ~
Attribute 5:	Substring ~
OK Cancel	Apply Help

In the Attribute fields, you can enter the attribute values that you want to filter. Then you can use the filter formats to filter the alarms that belong to the entered attribute values. For example, if you have configured alarms corresponding to an area called Area7, you can enter Area7 as an attribute value in the appropriate Attribute field, for example, Attribute 1, and use the Substring filter format. Then, when this alarm setup is applied, it will only show alarms that have Area 7 set for Attribute 1.

#### **String Filter Formats**

ltem	Description	
Sub-	Enter a substring based on which the alarm filter will be applied.	
string	Example	
	If you wish to display all alarms that belong to Area7, in the <b>Attribute</b> box, select the <b>Substring</b> option, and enter Area7.	
	All the alarms that belong to Area7 will be displayed.	
Wild-	Enter a string containing a wildcard character based on which the alarm filter will be applied.	
card	Example	
	If you wish to display all alarms that belong to the attribute Area as the first four characters, in the <b>Attribute</b> box, select the <b>Wildcard</b> option, and enter Area*.	

Item	Description		
	All alarms that belong to the attribute Area as the first four characters 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 belong to Area1, Area2, and Area3, in the <b>Attribute</b> box, se- lect the <b>Regex</b> option, and enter Area[1-3].		
	All alarms that belong to the attributes Area1, Area2, and Area33 will be displayed.		
Any in Set	Enter a comma separated set of attributes based on which the alarm filter can be applied to any in the set.		
	Example		
	<ul> <li>Attribute 3 of alarm point 1 is configured as Area 1, Area 2, Area 14, and Area 15.</li> <li>Attribute 3 of alarm point 2 is configured as Area 1, and Area 14.</li> <li>Attribute 3 of alarm point 3 is configured as Area 2, and Area 14.</li> </ul>		
	The alarm setup filter for Attribute 3 is specified as Area 1, and Area 15.		
	Using Any in Set as your filter type would show both point1 and point2 alarms but not point3 alarms since its attribute values are not in the set.		
All in	Enter a string containing a string based on which the alarm filter will be applied.		
Set	Example		
	<ul> <li>Attribute 3 of alarm point 1 is configured as Area 1, Area 2, Area 14, and Area 15.</li> <li>Attribute 3 of alarm point 2 is configured as Area 1, and, Area 14.</li> <li>Attribute 3 of alarm point 3 is configured as Area 2, and Area 14.</li> <li>The alarm setup filter for Attribute 3 is specified as Area 1, and Area 15.</li> </ul>		
	Using All in Set as your filter type would show only point1 alarms but not point2 or point3 alarms since their attributes don't match all of the attributes in the set.		

Step 3.1.7. 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.

Alarm Se	tups		<u>&gt;</u>	4
A Project:	PROFCIMP	•	Done	
B Setup:	REGION5		Save	
< <unfiltered>&gt; REGION3 REGION4 TANKS</unfiltered>	REGION3		Load	
		Delete		
			Make Default	
		9	Modify Current	
	,			

A	Select the project to which the Alarm Viewer control will be connect- ed.
В	Enter a new setup name in the <b>Setup</b> field.
С	Click Modify Current.
	The Modify Setup dialog box opens. Continue to Step 3.1.2 (on page 119).

#### Alarm Viewer Setup Button

3. Click **Setup** in an Alarm Viewer. The Alarm Setups dialog box opens.

4. Create a new setup as follows.

tups		×
REGION5	-	Done
< <unfiltered>&gt; BEGION3</unfiltered>	-	Save
REGION4 TANKS		Load
		Delete
		Make Default
	В	Modify Current
J		
	REGION5 < <unfiltered>&gt; REGION3 REGION4</unfiltered>	REGION5 < <unfiltered>&gt; REGION3 REGION4 TANKS</unfiltered>

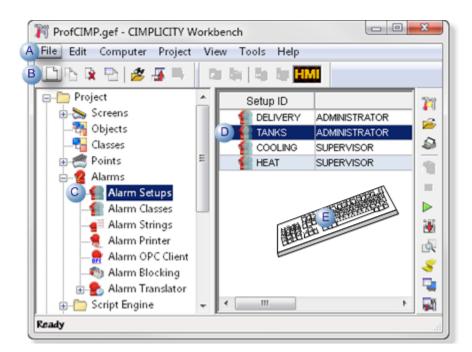
А	Enter a new setup name in the <b>Setup</b> field.
В	Click Modify Current.
	The Modify Setup dialog box opens. Continue to Step 3.1.2 (on page 135).

#### 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 <b>Alarm Setups</b> .	<ul> <li>a. Right-click Alarm Setups.</li> <li>b. Select New on the Popup menu.</li> </ul>	
D	In the Workbench right pane:		
	a. Right-click the Setup ID. b. Select Properties on the Popup menu.		
E	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	Cancel

Field	Description
Set-	A new setup name.
up	
ID	
User	User who will be associated with the setup. The assigned can modify the setup at any
ID	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 CIMPLICITY© Alarm Sound Manager (on page 197). 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

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

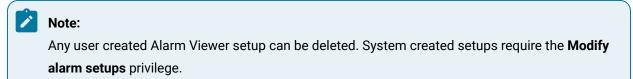
Step 3.1.8. Delete an Alarm Filter Setup

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.



## Step 3.1.9. 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.

Available buttons include:

	E	Button	Description
Option 3.2.1 (on page 154)	Ack (on page 154)	Ack	Acknowledge a selected alarm.
Option 3.2.2 (on page 154)	Reset (on page 154)	Reset	Reset a selected alarm.
Option 3.2.3 (on page 155)	Ack First (on page 155)	Ack First	Acknowledge the first alarm in the list.
Option 3.2.4 (on page 155)	Ack All (on page 155)	Ack All	Acknowledge all alarms.
Option 3.2.5 (on page 156)	Ack and Reset (on page 156)	Ack and Reset	Acknowledge and reset a selected alarm.

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	<b>Reset</b> is not clicked and No auto re- set	Font color changes
	Reset is clicked or Auto reset	Is deleted
Reset is not re- quired		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	<b>Ack</b> is not clicked and No auto acknowl- edge	Font color changes
Ack is required	Ack is clicked or Auto acknowledged	Is deleted
Ack is not re- quired		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	<b>Reset</b> is not clicked and No auto re- set	Font color changes
Reset is required	Reset is clicked or Auto reset	Is deleted
Reset is not re- quired		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	<b>Reset</b> is not clicked and No auto re- set	Font colors change
Reset is required	Reset is clicked or Auto reset	Are deleted
Reset is not re- quired		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 re- quired	Ack and Reset is clicked or Auto acknowledged and re- set	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 re- quired	Ack and Reset is clicked or Auto acknowledged and re- set	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.

Alarm Definition) \$90_700			
Alarm Alarm Routing Alarm Options			
Alarm Message: 700 over 125 or under 75			
Alarm Class: ABLCK >	1 Enter the name of a (text) help file that		
Alarm Limits Alarm Criteria	<ul> <li>is located in the project's alarm_help directory.</li> </ul>		
Hi-2: [150 Alarm Type : ] Hi-1: [125			
Lo-1: 100 Delay Alarm	2 The help file displays when Help is clicked in the Alarm Viewer for the		
Help File: ResetAlarm	associated Alarm ID.		
Alarm Operator Help			
Alarm ID: S90_700	Date: Nov		
Resource ID: 90-30	State: ALAF		
Class: ABLCK	Ack: N		
Deletion requirement: ACKNOWLEDGED RESET	Reset allowed: N		
Message: 700 over 125 or under 75	2		
Contact a supervisor immediately. The machine needs to be reset before it can operate.			
T			
	Done		

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 dis- plays
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.



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

1

Asterisk means that the Point ID has stacked alarms.

1	Alarm ID	Resource ID	Class Date	Time Sta	ite
	^ \$90_300	90-30	CDM_MOut 15	14:27 AL	AR
~	Tank 300 is in Alarn	n 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.

Stacked Alarm Messages						
Alarm ID: \$90_300 Resource ID: 90-30 Class: CDM_M Date Time State	Ack Message	Done				
Oct 15 14:27 ALARM Oct 15 14:26 ALARM Oct 15 14:26 ALARM Oct 15 14:25 ALARM Oct 15 14:25 ALARM Oct 15 14:24 ALARM Oct 15 14:23 ALARM Oct 15 14:22 ALARM Oct 15 14:21 ALARM	N Tank 300 is in Alarm state N Tank 300 is in Alarm state Y Tank 300 is in Alarm state N Tank 300 is in Alarm state					

#### 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:

Option 3.7.1 (on page 160)	View comments.
Option 3.7.2 (on page 161)	Add comments.
Option 3.7.3 (on page 162)	Add a comment for multiple alarms
Option 3.7.4 (on page 163)	Store comments.
Option 3.7.5 (on page 164)	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 Comments							
Alarm ID: Resource ID: Class:	S80_25 \$SYSTEM MED	Date: Apr 08 16 State: ALARM Ack: N	:39				
Message:	Contact manager. Sector	re 80 Machine 25					
Date	Comment						
Apr 8 16:48 Apr 8 16:47		to be taken off line. check Machine 25 feed	er				
Apr 8 16:47	Need to stay by ma	achine					
Apr 8 16:43 Apr 8 16:42	Machine 25 is finis Manager said to ig						
Apr 0 10.42							
	Done	Add Comment	D <u>e</u> lete 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 taken off line	9.
OK	Cancel

#### 3. Click OK.

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

Alarm Comments						
Alarm ID: Resource ID: Class: Message:	S80_25 \$SYSTEM MED Contact manager. Sectore	Date: Apr 08 16:39 State: ALARM Ack: N				
Date	Comment	oo Machine 23				
Date         Lomment           Apr 8 16:48         Machine 25 needs to be taken off line.           Apr 8 16:47         Manager needs to check Machine 25 feeder           Apr 8 16:47         Need to stay by machine           Apr 8 16:43         Machine 25 is finishing the job.           Apr 8 16:42         Manager said to ignore alarm.						
	Done	Add Comment Delete Comm	rent			

#### 4. Click Done.

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

If you configured the **Last Comment** column in Alarm Viewer control from CimEdit, the latest comment entered for an alarm appears in the **Last Comment** column of Alarm Viewer .

### Option 3.7.3. Add a Comment for Multiple Alarms

- 1. In the Alarm Viewer, select the Alarms for which you want to add a comment.
- 2. Select Comments.

	Project Name	Alarm ID	Date	Time	State	Ack	Ack User	Last Comment
C	PROJECT	AlarmPoint	Jul 16	20:48	AL ARM	Y	operator	abcd
An a	larm point							
C	PROJECT	MCP_PROC_DOWN	Jul 16	20:44	AL ARM	N		abcd
Proc	essEM_RPTerminated on I	HYDCIMWIN 10-01 Processin ar	ne MAC_EI	MRP				
		Add Commer	nt (2 alarms	selected)				×
		I						
		A		OK	Cano	el		
			_					
		Toggle S	Setup	Refres	sh Help	2	View Stack	Comments
_		Custom1						
2	Jul 16 20:48	Custom1						

The **Add Comment** window appears displaying the number of alarms selected.

- 3. Enter a comment.
- 4. Click OK.

The comment appears in Last Comment column of the selected alarms.

## Option 3.7.4. 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.

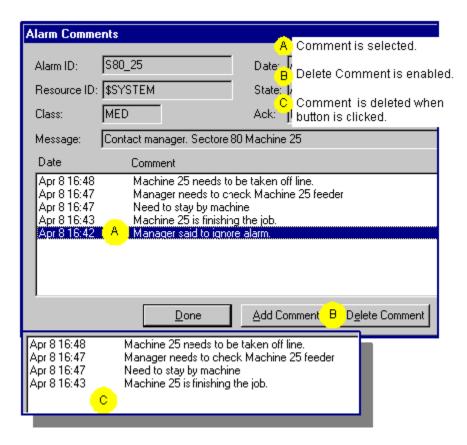
The next time the project starts comments will be stored according to your specifications.

## Option 3.7.5. 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.



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

### **Option 3.9. Delete Button: Delete an Alarm**

Alarms are automatically deleted once they have been successfully acknowledged and/or reset, as long as their deletion requirements have been met.

When and if an alarm can be manually deleted depends on two factors.

Specified alarm conditions must be met, or

A user is given the privilege to override the specified conditions.

- 1. Specify deletion requirements:
  - a. Do one of the following, depending on the alarm being configured.
    - Method 1. Configure a system alarm.
      - i. Select Project>Alarms in the Workbench left pane.
      - ii. Double-click the appropriate Alarm ID in the Workbench right pane. The **Alarm Definition** dialog box opens.
    - Method 2. Configure a point alarm.
      - i. Select the Points icon.
      - ii. Double-click the appropriate Point ID in the right pane of the Workbench. The Point Properties dialog box opens.
  - b. Select the Alarm Options tab.
  - c. Check Acknowledge to require acknowledgement before an alarm can be deleted.
  - d. Check **Reset** to require resetting before an alarm can be deleted.
- 2. Specify user privileges.
  - a. Open the **Role Properties** dialog box for each role that should have alarm deletion privileges.
  - b. Select the Privileges tab.
  - c. Check Delete Alarms.
- 3. Open the Alarm Viewer.
- 4. Click Delete.

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

#### Note:

In Alarm viewer, when you delete an alarm that has the **Last Comment** column configured, and **Store Alarm Comments** option enabled in the **Alarm Properties** for the project, the last comment of the alarm appears in the Alarm Viewer the next time the point goes into an alarm state.

# **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
NewAlarm
AlarmItemClick

## CustomButton

### CustomButton

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

Event	Expression	Procedure	Parar
ActiveX Event	CustomButton	OnCustomB	
	<b>_</b>		
•			•
Event:	ActiveX Event		•
ActiveX Event:	CustomButton		•
Action	AlmEvent	(Procedure)	• >
Action:	OnCustomButton (S	Script)	▼ >

Field	Description					
Event	ActiveX Event provides the CustomButton expression.					
Ac- tiveX Event	CustomButton is included in the drop-down list.					
Ac- tion	Contains a drop-down list of existing procedures and scripts. Use either of the following.					
	Procedure	rocedure Create or use an existing procedure.				
	Script	Create or use an existing script.				
Para- me- ter	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	Value returned when a command string (on page 122) is executed.				

## Example: Create an ActiveX Event Custom Button

1. Open a Button Caption (on page 122) 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.

Button Caption	×
Button caption:	ОК
Point Value	Cancel
Description:	
Message for selected alarm	
Command string:	
%MSG	
C Run program 💿 Fire ActiveX event	

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	1	Event	Expression	Procedure	
Geometry	I	ActiveX Event	CustomButton	OnCustomButt	on (Script)
General	I				
Movement	I				
Scaling	I	•			Þ
Rotation/Fill	A	Event	ActiveX Event		-
Color Animation	в	ActiveX Event:			-
Transparency	Т	1	,		
Events					
Script	С	Action:	OnCustomButtor	n (Script)	<b>•</b> >
Variables	I	Parameter:			
Menus	I		Debounce e	vent	
Procedures	I	New	Duplicat	e De	lete
Control Properties					
		ОК	Cancel A	pply He	lp

- 1. #unique_136_Connect_42_AEvent (on page 170)
- 2. #unique_136_Connect_42_BActiveX (on page 170)
- 3. #unique_136_Connect_42_CAction (on page 170)



#### Select ActiveX Event.

B ActiveX Event

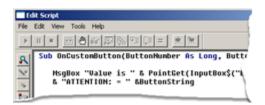
Select CustomButton.



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 ButtonString (on page 168) parameter value in the message.



#### The script is as follows.

```
Sub OnCustomButton(ButotonNumber As Long, ButtonString As String)
MsgBox "Value is " & PointGet(InputBox$("Enter Point Id") ) & ebCRLF _
  & "ATTENTION: = " &ButtonString
End Sub
```

- 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   I	Enter Point Id	ОК
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	TANK810 BasicScript	×
09:25 N TANK2	ALARM TANK2 is 90 C Value is 1000	
10 Feb 9 11:05 Toggle		I: = CALL SUPERVISOR
For Help, press F1		

A	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.
	<ul> <li>Message for the selected alarm.</li> </ul>

### NewAlarm

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

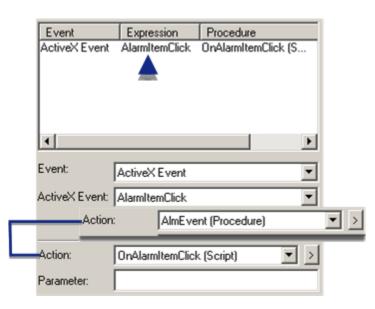
Event	Expression	Procedure	Parame	
ActiveX Event	NewAlarm	OnNewAlarm		
<b>↓</b>	ActiveX Event		•	
ActiveX Event:			•	
Action	n: AlmEr	vent (Procedure)	1	• >
Action:	OnNewAlarm (	Script)	▼ >	
Parameter:				

Field	Description			
Event	ActiveX Event provides the NewAlarm expression.			
Ac- tiveX Event	NewAlarm is included in the drop-down list.			
Ac- tion	Contains a drop-down list of existing procedures and scripts. Use either of the following.			
	Procedure Create or use an existing procedure.			
	Script Create or use an existing script.			
Para- me- ter	Can be used if the event invokes a script directly or through a procedure. The default code be- gins 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.



Field	Description						
Event	ActiveX	ActiveX Event provides the AlarmItemClick expression.					
Ac- tiveX Event	AlarmItemClick is included in the drop-down list.						
Ac- tion	Contains a drop-down list of existing procedures and scripts. Use either of the following.						
	Proce- dure	Create or use an existing procedure.					
	Script	Create or use an existing script.					
Para- me- ter	<ul> <li>Can be used if the event invokes a script directly or through a procedure. The default code be gins as follows. Private cimOleObj As AMVOCXLib.IAmvOcx Sub OnAlarmItemClick(AlarmInt As AMVOCXLib.AmvOcxAlarmItemInfo, ClickSource As Long) Where parameters are:</li> </ul>						
	Alarm- Info	Object that accesses several properties as follows.					

Field		Description		
		Property		Description
		String Alar dentifier()	ml-	Alarm ID
		String Re- sourcelder er()	ntifi-	Resource ID
		String Refe enceldenti		Reference ID
		String Proj	ject()	Project name
		Date Gene tionTime()	-	Date/time the alarm was generated
	Long AlarmS- tate()		nS-	Alarm state
		Long Acks tate()	8-	Acknowledge state
	String Alarm- Screen()		m-	(For point alarms only) Screen that is associated with the point on the Point Properties dialog box View tab.
	Long Severity() String Alarm- Message() Long Dura- tion()		erity()	Alarm severity
				Alarm message
			-	Alarm duration
		String Trai latedAlarn Message(	า-	Alarm message translated into the language specified for screen on which the alarm is selected. <b>Important:</b> The language and translated string must be in the CIMPLICITY Language Mapper to display correct- ly.
	Click- Source			used to click on an alarm in the Alarm Viewer list. The source is identi-
		Source	Ident	ified by

Field	Description				
	Left- mouse button	0			
	Right- mouse button	1			
	Enter key	2			
	text	te: e AlarmItemClick event will not be fired for the right-mouse button if the Con- t (Popup) menu is enabled for the Alarm Viewer control.			
	box				
	Right click menu	Privileges tab in the Role Properties dialog box.			
	Allow runtime popup menu	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			×
Colors	Event	Expression	Procedure
Geometry	ActiveX Event	AlarmItemClick	OnAlarmItemClick (Scrip)
General			
Movement			
Scaling	•		•
Rotation/Fill	Event	ActiveX Event	
Color Animation			
Transparency	ActiveX Event:	AlarmItemClick	•
Events			
Script C	Action:	OnAlarmItemClic	k (Script) 💌 >
Variables	Parameter:		
Menus		Debounce ev	ant
Procedures		1	1
Control Properties	New	Duplicate	e Delete
,	ОК	Cancel	Apply Help

1. #unique_139_Connect_42_AEvent (on page 176)

- 2. #unique_139_Connect_42_BActiveX (on page 176)
- 3. #unique_139_Connect_42_CAction (on page 176)



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 Allow runtime popup menu (on page 61) checkbox on the CIMPLICITY AMV Control Properties dialog box Display tab is clear (on page 175).

• Enter is pressed on the keyboard.

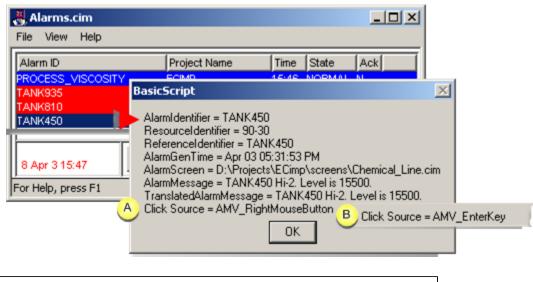
Edit Script	
File Edit View Tools Help	
▶Ⅱ■ 圖合#原始型印= ★	*
Private cim0le0bj As ANVOCXLib.In           No         Sub OnAlarmItemClick(AlarmInfo Astrony           Dim sourceStr As String         String	

#### 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.



А	AMV_RightMouseButton is the Click Source when the alarm is right-
	clicked.
В	AMV_EnterKey is the Click Source when the Enter key is pressed.

# 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:

Step	Name the Alarm Viewer OCX control you want to use for the method.
1 (on	
page	
179)	

Step 2 (on	Create an Invoke Method action for the screen object and select the Alarm Viewer method you want to invoke.
page 179)	

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.

Properties - Object								
Variables M	enus	nus Procedures Control P						
Rotation/Fill	Color Ar	nimation	Events	Script				
Colors Georr	ietry G	General Movemen		Scaling				
Object type: AMVOCX.AmvOcxCtrl.1 Object name: AMV Object name: AMV Object name: C Text file C Help file								
ОК	Cancel		Apply	Help				

- 6. Do one of the following.
  - $\circ$  Click OK to save your changes and close the Object Properties dialog box.
  - $\,\circ\,$  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.

Procedure Informatio	n	X
Actions Advanced		
Actions	SetProj	
InvokeMethod(AM	V, SetProjectSetup, GEF_NotConfirmed)	
Action type:	Invoke method	
B Object name:	AMV	
C Method:	SetProjectSetup	
IT (	D Confirmed	
	E Advanced	
New	Delete Action Order	
ОК	Cancel Apply Help	

А	Action	Invoke method
	type	
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	Con- firmed	Currently not implemented for the Alarm Viewer control.
E	Advanced	<ul> <li>When enabled:</li> <li>a. Click Advanced</li> <li>An Edit Method dialog box opens.</li> <li>a. Configure advanced specifications for the method.</li> <li>b. Click <b>OK</b>.</li> <li>The Edit Method dialog box closes.</li> </ul>

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:
  - $^{\circ}$  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 Vernova use.

### AboutBox Method

Purpose:	Display the Help About dialog box for the CIMPLICITY AMV Control. There is no equiva- lent to this method in the AMV Control.
Advanced pa- rameters	Not required.

### AddProject Method

Purpose	Add a project to the AMV Con- trol.
Advanced parame- ters	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:

 $\circ$  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 Parame- ters	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 parame- ters	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 parame- ters	Not required.

#### DoAckReset Method

Purpose	Acknowledge and reset the currently selected alarm(s) in the alarm list on the CIM-
	PLICITY AMV Control

Equivalent to	Ack and Reset button in the AMV Control.
Advanced para- meters	Not required.

### DoCimviewScreen Method

#### DoCimviewScreen Method

Purpose	Display the CimView screen configured for the currently selected alarm in the alarm list on the CIMPLICITY AMV Control .
Equiva- lent to	<b>CimView Screen</b> button in the AMV Control. <b>Important:</b> 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.
Ad- vanced parame- ters	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.

	es - LEVELT			Alaura I Ala	أميناهم	Alarm Option
eneral Vito	Jai View	Lennes Le	onversion	Alarm   Ala	rm Houting	Alarm Options
Format						
Justificatio	n: 💽 Left	◯ <u>B</u> igh	ore <u>5</u> O 1			
Width:	_					
TT-200 1						
Graphics -						
			<mark>.</mark> . r		_	
Display lov	κ	D	isplay <u>h</u> igh:		_	
Screen:	Trend.cin				<b>a</b>	
<u>s</u> creen.	I nend.cm				· ·	

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.

#### Where

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

#### 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 parame- ters	Not required.

#### DoCustom<n> Method

Purpose	Launch user-defined applications from the CIMPLICITY AMV Con-
	trol .

Equivalent to	Custom1 through Custom8 buttons in the AMV Control.
Advanced parame-	Not required.
ters	

### **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 pa- rameters	Not required.

### DoHelp Method

Purpose	Open the Alarm Operator Help dialog box for the currently selected alarm in the CIMPLICI- TY AMV Control's alarm list.
Equivalent to	<b>Help</b> 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 parame- ters	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 parame- ters	Not required.

### **DoReset Method**

Purpose	Let a user reset the currently selected alarm(s) in the CIMPLICITY AMV Control's alarm list.
Equivalent to	<b>Reset</b> 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 pa- rameters	Not required.

## DoToggle Method

Purpose	Toggle the CIMPLICITY AMV Control between the Static Alarm list and the Dynam- ic Alarm list.
Equivalent to	Toggle button in the AMV Control.
Advanced parame- ters	Not required.

### DoViewStack Method

Purpose	Open the Stacked Alarms dialog for the selected alarm in the CIMPLICITY AMV Control.
Equivalent to	<b>View Stack</b> 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 parame- ters	Not required.

## GetProjectSetup Method

Purpose	Return a string that contains the current setup name.
Advanced parame- ters	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 high-light the next alarm.
Equiva- lent to	Down arrow on a user's keyboard.
Ad-	Not required.
vanced	

parame-
ters

### 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.
Equiva- lent to	<b>Up arrow</b> on a user's keyboard.
Ad- vanced parame- ters	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 para- meters	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 pa- rameters	Not required.	

## RemoveProject Method

Purpose	Remove a project from the AMV Con- trol.
Advanced parame- ters	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 ("").

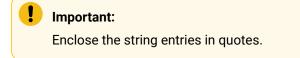
- The AMV Control attaches a project to the string, in the following order of priority.
- a. A default project.

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.



#### SelectAllAlarms Method

Purpose	Select all alarms in the CIMPLICITY AMV Control's alarm list.
Advanced parame- ters	Not required.

### SelectFirstAlarm

Purpose	Selects the first alarm in the list and displays
	it.

Advanced parame-	Not required.	
ters		

#### SelectPageAlarms Method

Purpose	Select all alarms displayed on the current screen in the CIMPLICITY AMV Con- trol .
Advanced parame- ters	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 pa- rameters	Not required.

### SetProjectSetup Method

Purpose	Allow a user to select a specified alarm setup that is currently supported by a project.
Advanced parame- ters	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**.
  - $\circ$  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
  - $\,{}^{\circ}$  Attach to a current project running inside a project or
  - $\,{}^{\circ}$  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

Pur- Allows you to suppress warning dialog pop up that appears when an alarm viewer is disconnect-

pose ed from the project.

Exam- Private cimOleObj As AMVOCXLib.IAmvOcx

ple

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 opened (*on page 195*) 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

Steps to configure alarm audio support include:

Step 1 (on page 194)	Configure sound for relevant alarm classes.
Step 2 (on page 195)	Open the CIMPLICITY® Alarm Sound Manager dialog box.
Step 3 (on page 196)	Add projects to a sound manager profile.
Step 4 (on page 201)	Configure runtime sound options.
Step 5 (on page 206)	Auto-start the Alarm Sound Manager.

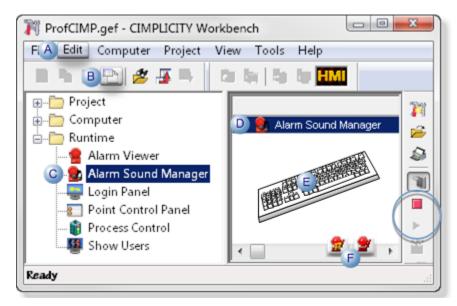
## Step 1. Configure Sound for Relevant Alarm Classes

You select .wav files or configure beeps for an alarm class on the Audio tab in the Alarm Class Configuration dialog box.

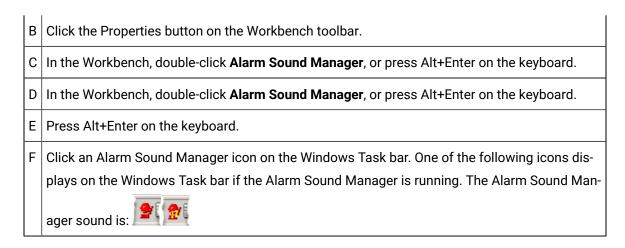
No sound				
) Wave file Beep	File name: Frequency:	37	Hz	
occp	Duration:	100	ms	
	No of beeps:	1		
	Delay:	100	ms	Test

## 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.
- 4. Do any of the following:



A Click Edit>Properties on the Workbench menu bar.



the CIMPLICITY® Alarm Sound Manager dialog box opens when you use either method.

CIMPLICITY® Alarm Sound Manager	
vects Options Startup	
	Add
	Delete
	Modify
Mute	Load profile) Save profile
	Minimize Exit Help

## Step 3. Add/Modify Projects in the Alarm Sound Manager

Step 3. Add/Modify Projects in the Alarm Sound Manager

Step 3.1	Configure projects to add to the list.
(on page	list.
197)	

Step 3.2	Save an alarm sound profile.
(on page	
200)	

### 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:	< <ul><li>UNFILTERED&gt;&gt;</li></ul>	

1. #unique_122_Connect_42_Project (on page 198)

2. #unique_122_Connect_42_Priority (on page 198)

3. #unique_122_Connect_42_Setup (on page 198)

A (on page 198)	Project
B (on page 198)	Priority
C (on page 198)	Setup

A Project

Select a project from the drop down menu.

Projects that are running and available (e.g. broadcast) are listed.



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.

C Setup

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	ОК	
	< <unfiltered>&gt; ALARMBLOCK SETUP1</unfiltered>	Cancel	
		Save	
		Load	
		Delete	
		Make Default	
		Modify Current	
			(on page 131)

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 (on page 131) 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.

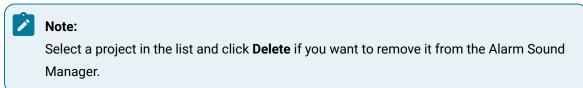
CIMPLICITY® Login - TRK61	×
User ID : ADMINISTRATOR	ОК
Password :	Cancel
Save User ID + Password	Help

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

	🖲 Alarm Sound Mana	ger 📃 🗙	
Projects Optio	ns Startup		
C ECIMP		Add Delete Modify	
🗆 Mute 🚽	Load	profile Save profile	
ECIMP : ABLCK : 6/12/2006 2:38:31 PM TANK810 is Hi-2. Level is 25000!			
	Minimize	Exit Help	

5. Repeat adding projects until all of the projects that should have sound for alarms appear in the **Projects** list.



Step 3.2. Save an Alarm Sound Profile

Real CIMPLICITY® Alarm Sound Manage	er 📃 🗙		
Projects Options Startup			
ECIMP	Add Delete Modify		
Mute Load p	rofile Save profile		
ECIMP : ABLCK : 6/12/2006 2:38:31 PM			
Minimize	xit Help		

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.



## 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.

CIMPLICITY® Alarm Sound Manager					
Projects Options Start	up .				
1 Sound/beep priority         Image: Construction of the second	3 Stop sound/beep on Acknowledge only C Reset only Both Ack and Reset C Either Ack or Reset C Either Ack or Reset				
5 Mute	5 Mute Load profile6 Save profile				
ECIMP : ABLCK : 6/12/2006 2:38:31 PM TANK810 is Hi-2. Level is 250001					
Minin	nize Exit Help				

- 1. #unique_179_Connect_42_i6Save (on page 205)
- 2. #unique_179_Connect_42_i5ClearMute (on page 205)
- 3. #unique_179_Connect_42_i5ClearMute (on page 205)
- 4. #unique_179_Connect_42_i4SoundBeep (on page 204)
- 5. #unique_179_Connect_42_i3StopSoundBeep (on page 204)
- 6. #unique_179_Connect_42_i2DefaultprojPriority (on page 204)
- 7. #unique_179_Connect_42_i1SoundBeeppriority (on page 203)

1 (on page 203)	Sound/beep priority
2 (on page 204)	Project default priority
3 (on page 204)	Stop sound/beep on

4 (on page 204)	Repeat sound/beep on
5 (on page 205)	Clear mute on new alarm/Mute
6 (on page 205)	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, as specified in the Alarm Class Configuration dialog box. Determination of the highest
Class	priority alarm is:
	1. The sound for the first alarm with the highest priority alarm class is played first.
	2. If alarms exist for the same alarm class in more than one project, then the highest priori-
	ty 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:
	1. The sound for the alarm with highest priority Alarm Class in the highest priority project is played first.
	2. If more than one project has the highest priority, then the order in which the projects dis-
	play in the Alarm Sound Manager dialog box determines the project priority.
I	

## i Tip:

The following keys select the alarm class or project.



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 (on page 197) 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.

Re-	Description
peat	
sound/	
beep	

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.

5 Clear mute on new alarm

Play or mute the sound as follows:

Check	То
Mute	Mute all alarms. <b>Note:</b> 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 <b>Mute</b> 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 <b>Repeat sound/beep</b> is checked.

6	Save pro-
	file

Click Save profile (on page 200) 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.

CIMPLICITY® Alarm Sound Manager	Ľ
Projects Options Startup	
1 IF Start at Windows startup	
Use profile:	
2 C:\Program Files\GE Fanuc\Proficy CIMPLICITY\proje	
	-1
Mute Load profile. 4 Save profile	Э
ECIMP : HIGH : 6/13/2006 12:45:18 PM	
Process Viscosity in alarm state NORMAL: Value is	0.
Minimize Exit Help	

- 1. #unique_180_Connect_42_i4Save (on page 208)
- 2. #unique_180_Connect_42_i3Mute (on page 208)
- 3. #unique_180_Connect_42_i2Use (on page 207)
- 4. #unique_180_Connect_42_i1Start (on page 207)

1 (on page 207)	Start at Windows startup
2 (on page 207)	Use profile
3 (on page 208)	Mute

1 Start at Windows startup

Check Start at Windows Startup to start an Alarm Sound Manager profile when Windows starts up.

2	Use pro-
	file

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:
	<ul> <li>Be mute when Windows opens</li> <li>Start and load the selected profile when Windows reboots.</li> </ul>
Clear	The Alarm Sound Manager will:
	<ul> <li>Provide the selected sounds as soon as one of the listed projects is running as soon as Windows reboots.</li> </ul>
	<b>Note:</b> 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 Save	e pro-

Click Save profile (on page 200) to save your selections in the open profile.

Results

file

One of the Alarm Sound Manager icons (on page 196) displays in the Windows Task bar when Windows starts.



When the Alarm Sound Manager is opened the following displays.

Projects Options Startup	Manager 📃 🗆 🗙
	<u>A</u> dd Delete Modify
3.⊽ <u>M</u> ute	Load profile
ECIMP : HIGH : 6/13/2006 1 Node ALBMUSB2 detects li	

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
ime Definition	
itart date: Start time: 3/18/2011 - 11:38:11 AM	Set Start Date and Time
Ind date: End time: 3/18/2011  IIIII PM	Set End Date and Time
DGR Date Time Display: Playback Speed: 1.000×	03-18-2011 11:38:12
Playback Speed: 1.000 X	03-18-2011 11:38:12
Playback Speed: 1.000×	Search Criteria
Playback Speed: 1.000X	Search Criteria
Playback Speed: 1.000 X	Search Criteria Enable Start Search Point Cond. Value

- 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.

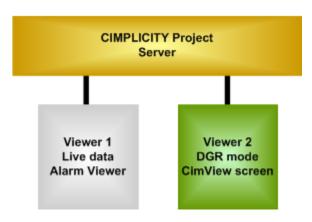
- Search logged data to locate when a point value meets a specified condition.
- A **Start Search** functionality sets the playback start time to the time of a corresponding specified condition.
- A Stop Search functionality pauses playback each time a specified condition is met.
- Run independent DGR 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 val- ues.
	Point or class attributes		Real time val- ues.
Historical Re- play	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.



- 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:

İ

DGR does not run in Demo mode.

## Configuration for DGR Use

### Configuration for DGR Use

Do the following before you open the DGR.

Step 1 (on page 213)	Select the playback source.
Step 2 (on page 214)	Check Log Data in the Point Properties dialog box.
Step 3 (on page 215)	(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.

General Options Settings Histo	rian	Change Management
DGR Dotions:		
Action Calendar Database Logger : A&E & App Database Logger : Points Document Delivery Historian OPC A&E Interface Marquee Driver MODBUS RTU Slave MODBUS TCP/IP Slave Proficy SOA Host	* III	Totocols: AB Ethernet Adv. DDE/DDE Client (As-Is) Allen-Bradley DF-1 Allen-Bradley RFID CCM2 FloPro/FloNet Ethernet Genius Honeywell IPC 620 Mitsubishi Serial Mitsubishi TCP/IP MODBUS RTU
Recipes	*	Cancel Help

А	Check Database Logger - Points
В	Clear Historian OPC Interface

• Pull historic data from Historian.

General Options Settings Hist	orian	Change Management
Project name:		
Dan		
Options:		rotocols:
Action Calendar Database Logger : A&E & App Database Logger : Points Document Delivery Historian OPC A&E Interface Marquee Driver MODBUS RTU Slave Proficy SOA Host		AB Ethernet Adv. DDE/DDE Client (As-1s) Allen-Bradley DF-1 Allen-Bradley RFID CCM2 FloPro/FloNet Ethernet Genius Honeywell IPC 620 Mitsubishi Serial Mitsubishi TCP/IP MODBUS RTU
Recipes	Ŧ	Cancel Helo
		Cancer Hep

А	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.

General Virb	ual View	Limits	Conversion	Alarm	Alarm Ro	uting Alarm Options
Description:	HEAT10	1				Basic <<
Data type:	INT	▼ Elements: 1 🚔 🕅 Read or			🗤 📝 Enable point	
Resource ID: HEATING					📝 Enable alarm	
Trend history				📃 Enterprise point		
			Seconds .			🔽 Log data
Max sa	mples 0				-	Perform
				_		<ul> <li>Perform and verify</li> <li>None</li> </ul>
Safety point:						Unsigned writes
Availability tr	igger:					Invert
Attribute set						
Extra info:	0	×	Level	0	×	
			OK		Cancel	

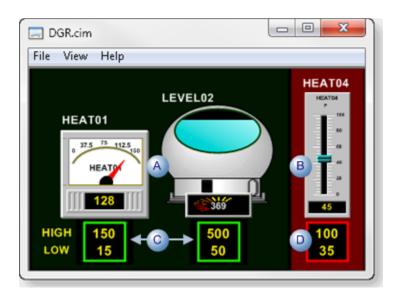
### Step 3. Run a Runtime Application to Display Point Values

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	Dis- play
А	Point	Yes	Yes
В	Point	No	Yes
С	Point attribute	Yes	Yes
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
А	Point	No
В	Points	Yes
С	Legend	No and Yes

# **DGR** Operation

# DGR Operation

Operating the DGR is straightforward.



Make sure the DGR project is running.

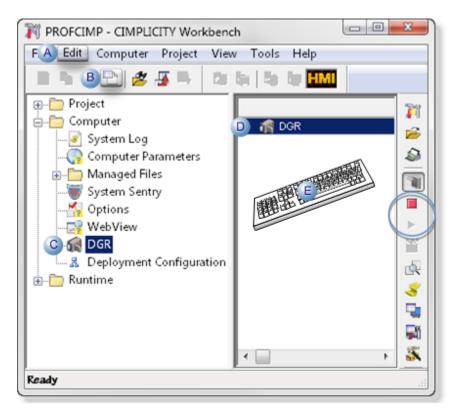
Step 1 (on page 218)	Open the DGR.
Step 2 (on page 219)	Start Historical Replay mode.
Step 3 (on page 222)	Set the start date and time.
Step 4 (on page 224)	Select playback speed.
Step 5 (on page 226)	View playback.
Step 6 (on page 244)	Exit the DGR.

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.



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 <b>DGR</b> . a. Right-click <b>DGR</b> .		
		b. Select Properties on the Popup menu.	

D	In the Workbench right pane:	
	Either	Or
	Double click <b>DGR</b> .	a. Right-click <b>DGR</b> . b. Select Properties on the Popup menu.
E	Press Alt+Enter on	· · · ·

- 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.

e C Live 🦵 Historical R	eplay Offine
Start date:         Start time:           3/18/2011         11:14:44 AM	Set Start Date and Time
End date: End time: 3/18/2011 V 12:14:44 PM	Set End Date and Time
DGR Date Time Display:	
Playback Speed: 1.000 X	
	Search Criteria

Result: The DGR does the following.

A	Switches to DGR mode.
В	Adds points.

C Live C Historica	B Adding Points
lime Definition	
Start date:         Start time:           3/18/2011         10:44:49 AM	Set Start Date and Time
End date: End time: 3/18/2011 × 11:44:49 AM	Set End Date and Time
DGR Date Time Display.	
DGR Date Time Display: Playback Speed: 1.000×	
Playback Speed: 1.000×	
Playback Speed: 1.000×	Search Criteria

С	Displays the status as Stopped.
D	Enables the Play buttons.

Mode ⊂ Live	A Stopped
Time Definition	-
Start date: Start time:	
3/18/2011 • 11:37:25 AM	Set Start Date and Time
End date: End time:	
3/18/2011 • 1:43:25 PM	Set End Date and Time
DGR Date Time Display.	C 03-18-2011 07:41:30
Distant Court 100 000 V	
Playback Speed: 100.000 X	
	]
	D Search Criteria
	Enable Start Search
last latenced for the	Point Cond. Value
Jog Interval (x1s):	- <u>-</u>
E 10	Enable Stop Search
	Point Cond. Value
	= <b>v</b>

E Turns off point displays in runtime user applications.

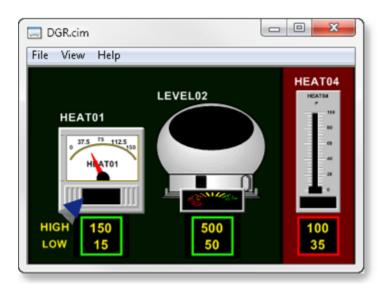
#### **Start Historical Replay Mode Examples**

- 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:

ļ

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.

Mode C Live @ Historical Rep	ike Stopped
ime Definition	109
Start date: B Start time: 3/18/2011 ▼ 11:38:17 PM	Set Start Date and Time
End date: End time: 3/18/2011 I 12:12:17 PM	🗧 🥼 Set End Date and Time
	· · · · · · · · · · · · · · · · · · ·
Playback Speed: 1.000X	••••••
Playback Speed 1.000X	- Search Criteria
Playback Speed 1.000 X	Search Criteria
Playback Speed: 1.000 X	Enable Start Search     Point     Cond. Value     F
Jog Interval (x1=):	Enable Start Search

	Feature	Description
A	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       Image: Second system         Sun Mon Tue Wed Thu       Fri         27       28       1       2       3       4       5         6       7       8       9       10       11       12         13       14       15       16       17       19       19         20       21       22       23       25       26         27       28       29       30       3       1       2         3       4       5       6       7       8       9         Conday:       3/18/2011       10       10       10       10       10
В	Start time	Hour:Minute:Second to start DGR replay.
С	Set Start Date and Time	Click to set the start date and time.
D	End date	Month/day/year to end the DGR replay.

	Feature	Description			
		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       Fit Set Set Set Set Set Set Set Set Set Se			
E	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.

C Live C Historical Replay	Paused
Time Definition	
Start date:         Start time:           3/18/2011         11:38:31 AM	Set Start Date and Time
End date: End time:	Set End Date and Time
DGR Date Time Display.	03-18-2011 11:40:18
B	
B	Enable Start Search
	Point Cond. Value
Jog Interval (x1s):	Point Cond. Value
Jog Interval (x1s):	Point Cond. Value

А	Lowest	0.002X of normal speed
В	Normal	1.000X
С	Highest	100.000X the normal speed

#### Note:

Т

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.

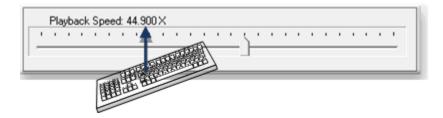


3. (When the speed is close to what you want) press the arrow keys on the keyboard to select the exact playback speed.

Right arrow key

Each time you press the right arrow key the speed increases 0.100x

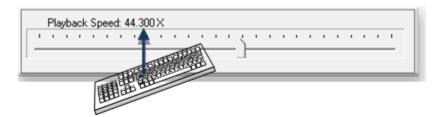
Continue to press the right arrow key until the speed you want displays as the playback speed.



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.

Option 5.1 (on page 227)	Manually control play- back.
Option 5.2 (on page 235)	Use jog interval.

Option 5.3	Enable start search.
(on page	
237)	
Option 5.4	Enable stop search.
Option 5.4 (on page	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
Play		The DGR begins playback from the start date/time.
(on		
page		
228)		
	Pause	Playback pauses. When you click the Play button to resume, the DGR begins play-
		ing from where it paused. It does not go back to the beginning.
(on		
page		
230)		
	Stop	The DGR stops and goes back to the start playback point.
(on		

Button		Action
page 233)		
Pla	ay	

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:	C 03-18-2011 11:38:12	
Playback Speed: 1.000X	••••••	
	iearch Citeria	
Jog Interval (x1s)	Point Cond. Value	
	Enable Stop Search	
Г	ioint Cond. Value	

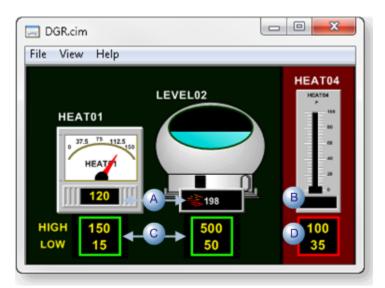
А	Reports that playback is in progress.
В	Disables the <b>Start/End date</b> and <b>Start/End time</b> fields. <b>Note:</b> Start and end dates and/or time cannot be changed while the DGR is playing.
С	Displays the playback date and time in the <b>DGR Date Time Display</b> box. <b>Note:</b> Applications that display timestamps, e.g. Trend, will play back millisecond or microsecond time.
D	Disables the Enable Start Search (on page 237) and Enable Stop Search (on page 240) checkbox- es.
E	Disables the <b>Jog Interval</b> 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 Pl Back	ayed
	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.



A No lines/values are available for non-logged point values.

B Lines/values display for the logged points.



Click the Pause button.

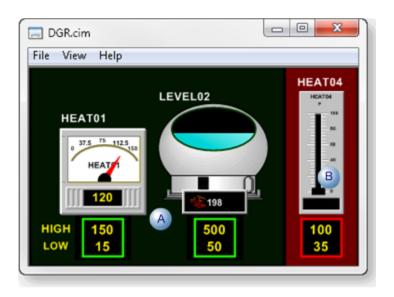
the DGR dialog box does the following.

CIMPLICITY DGR	
Mode C Live C Historical Replay	A Paused
Time Definition	_
Start date: Start time:	Set Start Date and Time
End date: End time:	Set End Date and Time
DGR Date Time Display.	03-18-2011 11:40:18
Playback Speed: 1.000 X	
	iearch Criteria Enable Start Search foint Cond Value
Jog Interval (x1s)	Enable Stop Search oint Cond. Value

А	Reports that playback is paused.
В	Disables the <b>Start/End date</b> and <b>Start/End time</b> fields. <b>Note:</b> Start and end dates and/or time cannot be changed while the DGR is paused.
С	Displays the paused date and time in the <b>DGR Date Time Display</b> box. <b>Note:</b> When playback is re- sumed, it resumes from the paused date and time.
D	Enables the Enable Stop Search (on page 240) checkbox.
Ε	Enables the <b>Jog Interval</b> options.

Runtime applications pause playback and continue to display the values that were found when Pause was clicked.

Example: CimView



А	\\	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.
В	3	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.

CIMPLICITY DGR	
Mode C Live @ Historical	A Stopped
B Start date: Start time:	
Stat une.	Set Start Date and Time
End date: End time: 3/18/2011 T 1:43:25 PM	Set End Date and Time
DGR Date Time Display.	03-18-2011 07:41:30
Playback Speed: 100.000 ×	······ <u>}</u>
Jog Interval (x1a):	D Search Criteria Enable Start Search Point Cond. Value T
	Enable Stop Search     Point     Cond. Value

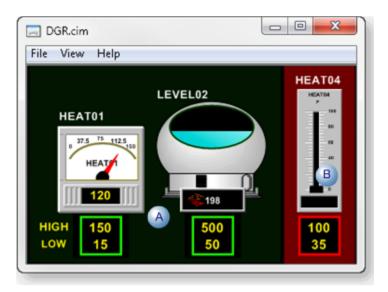
А	Reports that playback is stopped.
В	Enables the <b>Start/End date</b> and <b>Start/End time</b> fields. <b>Note:</b> When playback is restarted, DGR does one of the following.
	<ul> <li>Rewinds to the original start time and starts playing again.</li> </ul>
	<ul> <li>Starts from a new date and time in the Start date and Start time fields.</li> </ul>
С	Displays the paused date and time in the <b>DGR Date Time Display</b> box, if the DGR has been running. <b>Note:</b> When DGR is restarted, it restarts from the stopped date and time.
D	Enables the Enable Start Search (on page 237) and Enable Stop Search (on page 240) checkbox- es.
E	Enables the <b>Jog Interval</b> options.
Ru	ntime applications stop playback and continue to display the values that were found when Stop was

Runtime applications stop playback and continue to display the values that were found when Stop was clicked.

Runtime | 6 - DGR | 234

#### 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.

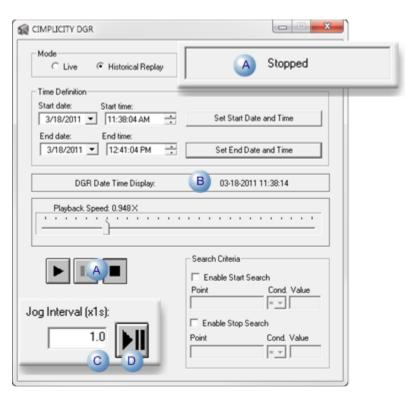
### Option 5.2. Use Jog Interval

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



А	Status	Report that playback is stopped.
	Field/	
	Buttons	
В	DGR	Displays the stopped date and time in the DGR Date Time Display box. Note: When play-
	Date	back 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.

	Time Display		
С	Jog In- terval	Defines the jog interval length. The acc	ceptable range is:
		Minimum	0.001 second
		Default	1.0 second
D	Jog but- ton	Starts the jog.	

### Jog Playing

When the Jog button is clicked CIMPLICITY DGR plays for the specified jog interval.

DGR displays, as follows.

MPLICITY DGR	
Mode C Live C Historical Replay	A Playing
Time Definition Start date: Start time: 3/18/2011 1:38:11 AM	Set Start Date and Time
End date: End time: 3/18/2011  1:18:11 PM	
DGR Date Time Display:	B 03-18-2011 11:38:12
DGR Date Time Display: Playback Speed: 1.000 X	B 03-18-2011 11:38:12

А	Status Field/Buttons	Report that playback is playing
В	DGR Date Time Dis- play	Displays the playback date and time in the <b>DGR Date Time Display</b> 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.

A (on page 237)	Enable Start Search criteria.
B (on page 238)	Review Start Search play- back.
C (on page 239)	Pause of stop playback.

1. Enable Start Search criteria

Enter the following.

CIMPLICITY DGR		
C Live C Historical Repl	ay Stoppe	d
Time Definition           Start date:         Start time:           3/18/2011         11:38.45 AM           End date:         End time:           3/18/2011         1:02.45 PM	Set Start Date a	
DGR Date Time Display.		
Playback Speed 1.000 X		•••••
	Search Criteria	arch
Jog Interval (x1=):	Point LEVELT201	Cond. Value
	🔲 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. LEV- ELT201>500 is entered as the Enable Start Search condition.
	Val- ue	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.

Mode C Live C Historical Replay	1 Playing
Time Definition	
Start date: Start time:	
3/18/2011 💌 11:38:30 AM	Set Start Date and Time
End date: End time: 3/18/2011  I:06:30 PM	Set End Date and Time
DGR Date Time Display:	3 03-18-2011 11:38:40
	3 03-18-2011 11:38:40
DGR Date Time Display: Playback Speed: 0.948X	3 03-18-2011 11:38:40
	3 03-18-2011 11:38-40
Playback Speed 0.948X	3 03-18-2011 11:38-40
Playback Speed 0.948X	Search Criteria
Playback Speed 0.948X	
Playback Speed 0.948X	Search Criteria
Playback Speed: 0.948X	Search Criteria           Im         Enable Stat Search           Point         Cond. Value           LEVELT201         >
Playback Speed: 0.948X	Search Citteria
Playback Speed: 0.948X	Search Criteria

- 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 speed (*on page 224*) 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 Stop (on page 233).
- 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.

A (on page 240)	Enable Stop Search criteria.
B (on page 241)	Review Stop Search play- back.
C (on page 243)	Resume playback.

1. Enable Stop Search criteria

Enter the following.

C Live @ Historical P	Replay	Stopped
Time Definition		
Start date: Start time:		
3/18/2011 <u>▼</u>  11:38:45 A	м 🗄 _	Set Start Date and Time
End date: End time: 3/18/2011 • 1:02:45 F	M E	Set End Date and Time
,		
DGR Date Time Disp	lay.	
Playback Speed: 1.000 X		
	Search	Criteria
		able Start Search
	Point	Cond. Value
Jog Interval (x1s)	TORK	
Jog Interval (x1s):		
1.0		= _
1.0		
1.0		= 👻

1	Check	Check Enable Stop Search. The <b>Stop Search</b> fields are enabled. Entries are as follows.		
2	Field Description			
	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 <b>Enable Stop Search</b> condition.		
	Val-       The value (in relation to the condition) that, when found, will start the DGR playback.         ue       Image: Condition of the condition of			

1. Review Stop Search playback

The DGR does the following.

Searches for the first instance that fulfills the condition.

CIMPLICITY DGR	
Mode C Live & 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:	Set End Date and Time
DGR Date Time Display:	3 03-18-2011 11:36:49
Playback Speed: 1.000X	
<b>2▶ II ■</b>	Search Criteria
Jog Interval (x1 s):	Form Cond. Value
4	LEVELT201 > - 500

1	Starts its search at the selected Start date and Start time.	
2	2 While playing searches for the first instance of a value that fulfills the <b>Stop Search</b> criteria.	
3	Displays the date and time playback status. <b>Note:</b> The playback speed (on page 224) can be changed at any time.	
4	Disables the <b>Enable Stop Search</b> fields.	

When DGR finds the first instance that fulfills the condition, DGR does the following.

CIMPLICITY DGR	
Mode C Live & Historical Replay	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:	03-18-2011 11:40:18
<u> }</u>	
	Search Criteria

1	Pauses the play
2	Displays the data and time the pause oc- curred.
3	Enables the <b>Enable Stop Search</b> 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.

C Live C Historical Replay	Offline
ime Definition	
tart date: Start time: 3/18/2011 - 11:36:47 AM	Set Start Date and Time
ind date: End time:	
3/18/2011 Y 1:51:47 PM	Set End Date and Time
DGR Date Time Display.	03-18-2011 11:40:18
Playback Speed: 1.000×	
	Search Criteria
	Search Criteria
Jog Interval (x1s):	Enable Start Search
	Enable Start Search Point Cond. Value
	Enable Start Search Point Cond. Val

A	Click the Stop button (when still in Historical Replay mode).	
В	Check Live in the Mode box.	
С	Click 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.

Point attributes in DGR that are supported are supported in one of the following ways.

Historical	Some point attributes can be logged to the DATA_LOG table as follows.	
values (if		
available)		
	If Attributes are:	DGR Displays:

	Configured for logging	The following attributes are logged to the SQL database.	
	to the <b>SQL DATA_LOG</b> table,	<ul> <li>Point Value</li> <li>Prev. Value</li> <li>Raw value</li> <li>Alarm state</li> <li>Resource</li> <li>Time last Logged</li> <li>Engineering Units</li> <li>Quality</li> <li>User flags</li> </ul> These attributes will be replayed from SQL database Attributes	
		other than these point attributes will be replayed from project configured data.	
	Not configured for log- ging	Current value.	
Currently configured value	<ul> <li>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.</li> <li>The currently configured value for these attributes will be displayed in DGR mode.</li> </ul>		
	• The only attribute	es logged to Historian are POINT_ID and TIMESTAMP. DGR dis- ly configured value for all other attributes associated with points	

## 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 namel>|<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