All Tech Notes, Tech Alerts and KBCD documents and software are provided "as is" without warranty of any kind. See the Terms of Use for more information.

Topic#: 002632 Created: March 2012

Introduction

The **SignedWrite()** function performs a write to an AutomationObject attribute that has a Secured Write or Verified Write security classification in the Galaxy. The SignedWrite() function can be used only in ArchestrA client scripts, not in Application Object scripts, and only on Attributes that have been configured for Secured Write or Verified Write.

Application Versions

- Wonderware InTouch® 10.5 and later
- Wonderware Application Server 3.5 and later

For all the below examples please setup your security in the Galaxy.

To set up Galaxy Security

- 1. Create a new Galaxy.
- 2. On the main menu, click Galaxy-> Configure-> Security.
- 3. Select Galaxy Security.
- 4. Login with the following credentials:
 - Login Name: Administrator
 - Password: (blank)
- 5. Repeat Step 3 and click the Users tab.
- 6. Add two users. One user is an Operator (Jeff Smith) and the other is a Supervisor (Bindya Shah).

compare security		
Authentication Mode Security Groups Ro	oles Users	
uthorized <u>U</u> sers available:		Change Password
User	Full name	
😤 Administrator		
S DefaultUser		
Operator	Jeff Smith	
Supervisor	Bindya Sha	ah
<u>(</u>]		
•]		
✓III Issociated <u>R</u> oles for Operator:		
ssociated <u>R</u> oles for Operator:		Access level
ssociated <u>R</u> oles for Operator: Role		Access level 9999
ssociated <u>R</u> oles for Operator: Role Role Role Role Role		Access level 9999 0
ssociated <u>R</u> oles forOperator: Role		Access level 9999 0
ssociated <u>R</u> oles forOperator: Role Administrator S_ Default		Access level 9999 0
ssociated <u>R</u> oles forOperator: Role Administrator S Default		Access level 9999 0
ssociated <u>R</u> oles for Operator: Role Administrator		Access level 9999 0
 ssociated<u>R</u>oles for Operator: Role ▲ Administrator ▲ Default 		Access level 9999 0
 ssociated<u>R</u>oles for Operator: Role ▲ Administrator ▲ Default 		Access level 9999 0
 ✓ Lissociated <u>Roles for Operator:</u> Role ▲ Administrator ☑ ▲ Default 		Access level 9999 0
Administrator		Access level 9999 0
 ✓ Lissociated <u>Roles for Operator:</u> Role ☑ ▲ Administrator ☑ ▲ Default 		Access level 9999 0
Associated <u>Roles for Operator:</u> Role Administrator Default		Access level 9999 0
Associated <u>Roles for Operator:</u> Role Administrator Default		Access level 9999 0

FIGURE 1: ADD OPERATOR AND SUPERVISOR USERS

- 7. Highlight the Operator and click Change Password.
- 8. The old password is (blank). Set a new password, for example, operator.
- 9. Highlight the Supervisor and click the Change Password button.
- 10. The old password is (blank). Set a new password, for example, supervisor.
- 11. Click the Roles tab.
- 12. Select **Default** and uncheck all options (Figure 1 below).

oles available:	Security Roles of the Gal	₩ <u>G</u> eneral permissions:
Role Administrator	Access level	DE Permissions
Default	0	Importing and Exporting General Configuration System Configuration DeviceIntegration Objects Application Configuration Framework Configuration Deployment Permissions Graphic Management Permissions SMC Permissions Can Start the SMC Can Start the SMC Can Start/Stop Engine/Platform Can Write to GObject Attributes using C
		Operational permissions:

FIGURE 2: UNCHECK ALL DEFAULT SECURITY OPTIONS

- 13. Add the Supervisor and Operator roles with Access Levels 9999 and 5555 respectively.
- 14. For the **Supervisor** role, check all the permissions shown in Figure 3 (below).

Define the	Security Roles of the Galaxy	
oles available:	Access level	General permissions:
Administrator	9999	Can Start the IDE
Default	0	⊕ Importing and Exporting
Operator	5555	⊕ General Configuration
Supervisor	9999	
		DeviceIntegration Objects
		Application Configuration
		Framework Configuration
		User Configuration
		Deployment Permissions
		Graphic Management Permissions
		Can Start the SMC
		Can Start/Stop Engine/Platform
		Can Write to GObject Attributes using O
		Operational permissions:
		Default
		Can Advnowledge Alarms
		Can Modify "Configure" Attributes
		- Can Modify "Operate" Attributes
		- Can Modify "Tune" Attributes
		Can Verify Writes

FIGURE 3: CHECK PERMISSIONS FOR SUPERVISOR

15. For the Operator role just check SMC permissions and everything under Default except for Can Verify Writes (Figure 4 below).

oles available:	+ ×	General permissions:
Role	Access level	Can Start the IDE
Administrator	3333	Importing and Exporting
Operator	CCCC	General Configuration
Supervisor	0000	System Configuration
Contra visur	3333	DeviceIntegration Objects
		Application Configuration
		Framework Configuration
		User Configuration
		Deployment Permissions
		Graphic Management Permissions
		E MC Permissions
		Can Start the SMC
		Can Write to GObject Attributes using O
		Operational permissions:
		Can Acknowledge Alarms
		Can Modify "Operate" Attributes
		- Can Modify "Tune" Attributes
		Can Verify Writes

FIGURE 4: OPERATOR PERMISSIONS

16. Click the **Users** tab and make sure you have selected the associated role for each authorized user. For example, **Operator** is associated with the Operator role (Figure 5 below).

Full name		
1		
Jeff Smith		
Bindya Shah		
	Access level	
	9999	
	0	
	5555	
	Jeff Smith Bindya Shah	Jeff Smith Bindya Shah Access level 9999 0 5555 9999

FIGURE 5: ASSOCIATED USERS AND ROLES

Examples

This Tech Note includes the following examples. Each section contains script samples you can copy/paste into your Objects.

- Configuring and using the Secured Write AutomationObject
- Configuring and using the Verified Write AutomationObject

Configuring and using the Secured Write AutomationObject

This example shows how to configure and use the Secured Write AutomationObject.

- 1. Create a new Galaxy and call it SecurityApp.
- 2. Open the IDE and create the following object instances:
 - \$WinPlatform instance called \$WinPlatform_001.
 - \$AppEngine instance called **\$AppEngine_001**.
 - \$Area instance called \$Area_001.
 - \$UserDefined object instance called **\$SecVerUDO**.
- 3. Create a UDA called SecUDA which is an Integer data type and make sure that the security type is Secured Write.
- 4. Create an ArchestrA Graphic on the \$SecVerUDO called SecuredWriteGraphic.
- 5. Create a Text object and type in Operator Name and next to it add another text object ###.
- 6. Create a Text object and type in Secured Write Value. Next to it add another text object ### (Figure 6 below).



FIGURE 6: TEXT OBJECTS IN SECUREDWRITEGRAPHIC

- 7. Create the following Custom Properties:
 - OperatorNameCP which is a String data type.
 - SecuredCP which is an Integer data type.
- 8. Assign the OperatorNameCP to InTouch: \$OperatorName.
- 9. Assign the SecuredCP to SecVerUDO.SecUDA (Figure 7 below).

Cure custom Prope	rues - english (onited sta		
Custom Prop	perties + -	SecuredCP	SecuredWirteGra
		▲ 2 of 2 →	2 🗸
Name OperatorNameCP SecuredCP	Default Value InTouch: \$Operator SecVerUDO.SecUDA	Data Iype Integer Default Value SecVerUDO.SecUDA Visibility Public (Property can b Private (Property is his) Description	e seenwhen symbol is embedded) idden when symbol is embedded)
Status The property is configur 'SecVerUDO.SecUDA'.	red as a reference to		OK Cancel

FIGURE 7: ASSIGN CUSTOM PROPERTIES

10. Assign a Value Display animation to the ### next to **Operator Name** text to **OperatorNameCP** (Figure 8 below).

 $Configuring \ and \ Using \ Secured \ Verified \ Write \ With \ the \ Signed \ Write() \ Function$

Edit Animations	English (United	States)		
Animations	s +	1.0 Value	Display 1 of 1 ▶	Text2
Visualization		States	Boolean Analog String Time N	lame
Value Display	Enabled 💌	Expression Or Refer	rence	
		String	OperatorNameCP	
(4)				OK Cancel

FIGURE 8: VALUE ANIMATION TO OPERATORNAMECP

11. Assign a User Input Analog animation to ### next to Secured Write Value and reference it to SecuredCP (Figure 9 below).

Content of the second s	- English (United S +	States)	Input 1of1 ▶	_□× Text2 ∠ ✓
Interaction	Enabled 💌	<u>States</u> <u>R</u> eference Analog	Boolean Analog String Time Elapsed Time SecuredCP	K X
		Message to User	Z Destrict Values	× ×
		Migimum Magimum	0	* *
		Shortcut Interaction <u>T</u> ext Format	□ Ctri □ Shift Key None 💌 □ Input Only 🔽 Use Keypad	
۲		<u>T</u> ext Format	рана ОК	Cancel

FIGURE 9: USER INPUT ANIMATION TO SECUREDCP

- 12. Save and check in the **\$SecVerUDO** object.
- 13. Create a new derived InTouchViewApp called SecVerApp.
- 14. Create an InTouch Window and call it Secured Write Window.
- 15. Embed the SecuredWriteGraphic on the InTouch Window (Figure 10 below).

InTouch - WindowHaker - \\10HLKF64DM Intouch - WindowHaker - \\10HL	VSW\SECUIRTYAPP-\$SECVERAPP	
Classic View × Project View	× Secured Write Window	×
Windows Windows & Scr Secured Write Wind Image: Constraint of the secure of the secur	operator Name	###
	Secured Write Value	###
Scripts		

FIGURE 10: EMBEDDED SECUREDWRITEGRAPHIC

- 16. Go to Special-> Security and click Select Security Type as ArchestrA.
- 17. Deploy all the objects (WinPlatform_001, AppEngine_001, Area_001, SecVerUDO).
- 18. Switch to Runtime mode.
- 19. Click Special-> Security-> Log on.
- 20. Login as **Operator** with password **operator**. Notice if you login as Operator, the **OperatorName** will be Jeff Smith since that is what is configured in Galaxy security.



FIGURE 11: SECURED WRITE WINDOW IN RUNTIME

21. Click on the **O**. A keyboard dialog appears.

Current Value:		0		
Minimum Value:		0		
Maximum Value:		100		
	New Value:	0		
	7	8	9	<
	4	5	6	
	1	2	3	
	÷	0		
		1		

FIGURE 12: KEYBOARD INPUT

- 22. Type a different value and click \mathbf{OK} . In this example the value is $\mathbf{80}$.
- 23. A **Secured Write** dialog box appears which requires a signature.

Since we have enabled (in the above security model) Operator changes, add the password for the operator and also a comment about changing the value (Figure 13 below).

ecured Write	2	×
The UserDefi creating custo Analog Attribu objects.	ned object provides a starting point for om built objects that include Discrete a utes, UDAs, Scripts, Extensions, or Con	nd tained
Attribute	SecVerUDO.SecUDA	
Value 8	30	
Comment Changing the	value of pump as per instruction.	*
		v
Mode	Username Operator Password	
	Domain ArchestrA	
	OK Car	icel

FIGURE 13: ADD PASSWORD AND COMMENT

24. In WindowViewer you notice the change (Figure 14 below).



FIGURE 14: SECURED WRITE VALUE CHANGED IN RUNTIME

Configuring and using the Verified Write AutomationObject

This example shows how to configure and use the Secured Write AutomationObject with the SignedWrite() function.

- 1. Create a new Galaxy called SecurityApp.
- 2. Create the following object instances:
 - \$WinPlatform instance called \$WinPlatform_001
 - \$AppEngine instance called \$AppEngine_001
 - \$Area instance called \$Area_001
 - \$UserDefined object instance called **\$SecVerUDO**
- 3. Create a UDA called SecUDA that is an Integer data type, and the security type is Secured Write.
- 4. Create an ArchestrA Graphic on the **\$SecVerUDO** called **SignedWriteGraphic**.
- 5. Create a Text object and type Operator Name. Next to it add another text object ###.
- 6. Create a Text object and type Secured Write Value. Next to it add another text object ###.
- 7. Create a Button object called SignedWrite.



FIGURE 15: SIGNEDWRITE GRAPHIC

- 8. Create the following custom properties:
 - Custom Property called OperatorNameCP: String data type.
 - · Custom Property called SecuredCP: Integer data type.
- 9. Assign the OperatorNameCP to InTouch:\$OperatorName.
- 10. Assign the SecuredCP to SecVerUDO.SecUDA (Figure 16 below).

Custom Prope	rties + -	SecuredCP	SignedWriteGraphic
		2 of 2 >	1 J
Name CoperatorNameCP SecuredCP Status	Default Value InTouch: \$Operator SecVerUDO.SecUDA	Data Iype Integer Default Value SecVerUDO.SecUD/ Visibility Public (Property C Private (Propert Description Image: Comparison of the second seco	Can be seen when symbol is embedded) y is hidden when symbol is embedded) y is hidden when symbol is embedded)
The property is configured 'SecVerUDO.SecUDA'.	as a reference to		OK Cancel

FIGURE 16: ASSIGN CUSTOM PROPERTIES

11. Assign a Value Display animation to the ### next to the **Operator Name** text to **OperatorNameCP** (Figure 17 below).

Animation	- English (United	States)	Display			Text2
Visualization	Enabled 💌	States Expression Or Refe	Boolean Analog rrence OperatorNameCP	String Time	Name	× •
(6)					ОК	Cancel

FIGURE 17: VALUE DISPLAY ANIMATION FOR OPERATOR NAME TEXT

12. Assign a Value Display Analog animation to the ### next to Secured Write Value and reference it to SecuredCP (Figure 18 below).

😼 Edit Animations - English (Un	ted States)		
Animations +	1.0 Valu	e Display 1of1 ▶	Text4
Visualization	States	Boolean Analog String Time Name	
Value Display Enabled	Expression Or Ref	lerence	
	Analog	SecuredCP	×
	Text Format	222	
		This is the current element Format String. If you change it here, it will affect the e property. The format applied to the text contained in the graphic element. (e.g. PV = #,##	ement TextFormat element
			OK Cancel

FIGURE 18: ASSIGN ANIMATION TO SECURED WRITE VALUE

13. Add the following Action Script on the **SignedWrite** button:

```
Dim Result as Integer;
Result = SignedWrite( "SecuredCP", 50, "Manual setting the BatchNumber", False, 2, NULL);
```

Edit Animations - English (United	States)		_10
Animations +	Action Scripts		Button:
Interaction			(8
Action Scripts Enabled 💌	Key Equivalent 🗆 Ctri 🗖 Shift Key None	scripts used:	1
	Irigger type: On Left Click/Key Down	Every:	ms
		to A	1
1	Dim Result as Integer;		
1	Result = SignedWrite("SecuredCP", 50, "Manual setting the BatchNumbe	r", False, i	2, NULL);
	Line: 3 Col: 38		

FIGURE 19: BUTTON ACTION SCRIPT

- 14. Save and Check In the **\$SecVerUDO** object.
- 15. Create a new derived InTouchViewApp called SecVerApp.
- 16. Create an InTouch Window call it SignedWrite Window.
- 17. Embed the SignedWriteGraphic on the InTouch Window (Figure 20 below).



FIGURE 20: EMBEDDED SIGNEDWRITE GRAPHIC

- 18. Go to Special-> Security-> Select Security Type as ArchestrA.
- 19. Deploy all your objects. (WinPlatform_001, AppEngine_001, Area_001, SecVerUDO).
- 20. Switch to Runtime mode.
- 21. Click Special->Security->Log on.
- 22. Login as **Operator** and password **operator** according to the above security model. Notice if you login as Operator then the OperatorName will be Jeff Smith as that is what is configured in the Galaxy security above.



FIGURE 21: OPERATOR NAME AND VALUE IN RUNTIME

23. Now click on the SignedWrite button and notice the secured write dialog box will come up and ask for signature to change the value as shown below.

ecured Wr	ite	Ę
Manual seo	ing the Batchivumber	
Attribute	SecVerUD0.SecUDA	
Value	50	_
Comment		٣.
		*
		v
Mode	Username Operator	
0	Password ••••••	
	Domain ArchestrA	
	OK Cancel	

FIGURE 22: SECURED WRITE DIALOG

We cannot edit the comment since we set the coded value to False for the field where **Comment_is_Editable**.

24. Click **OK** after typing the correct password. Since the Operator had permissions to modify the value changed and now in WindowViewer you notice the change as shown below.



FIGURE 23: SECURED WRITE COMPLETE

Configuring and Using the Verified Write AutomationObject

This example shows how to configure and use the Secured Write AutomationObject with the SignedWrite() function.

- 1. Create a new Galaxy e.g. SecurityApp.
- 2. Create the following object instances:
 - \$WinPlatform instance called \$WinPlatform_001
 - \$AppEngine instance called \$AppEngine_001
 - \$Area instance called \$Area_001
 - \$UserDefined object instance called **\$SecVerUDO**
- 3. Create a UDA called VerUDA which is an Integer data type and ensure that the security type is Verified Write.
- 4. Create another UDA called TemperatureChangeList which is a String Array. This UDA has 3 elements (Figure 24 below).



FIGURE 24: TEMPERATURE CHANGE ARRAY

- 5. Create an ArchestrA Graphic on the \$SecVerUDO called VerifiedWriteGraphic.
- 6. Create the following text elements (Figure 25 below).
 - Text object Operator Name and text object ###
 - Text object Sec\Ver Value and text object ###
 - Button object SignedWrite

🔧 SecVerUDO.VerifiedWriteGraphic *	c * - English (United States)				
Graphic Edit View Arrange Format	Spedal Help				
Save and Close 🛃 🙆 🧐 🌱	🛃 Save and Close 📓 🗠 🥑 🖤 👻 🔍 😳 🕺 🖾 🖇 🖾 🌮 🖓 🖓 🖓 🖏 🖾 🖏 🖉				
12 • 12	· B Z ∐ A ∧ E • ∠ • 🖄 • A • ≡ •				
N N N N N N N N N	ᅘᇮᇟᅘᇥᆝᄰᅋᇔᆝᇻᆋᅇᅃᅇ	に 相 昭 昭 昭 省 141 2			
Tools					
 × / + □ ○ □ × ∨ ∅ 𝔅 𝔅 𝔅 > □ × ∨ 𝔅 𝔅 𝔅 > □ × 𝔅 𝔅 𝔅 × 𝔅 𝔅 𝔅 <li< th=""><th>Operator Name</th><th>###</th></li<>	Operator Name	###			
Elements					
- 7 Button 1 - 7 Text4 - 7 Text3 - 7 Text2 - 7 Text1	Sec\Ver Value	###			
	SignedWrite				

FIGURE 25: SECUREDWRITE GRAPHIC ELEMENTS

- 7. Create the following Custom Properties
 - Custom Property OperatorNameCP: String data type
 - Custom Property SecVerCP: Integer data type
- 8. Assign the OperatorNameCP to InTouch:\$OperatorName.
- 9. Assign the SecVerCP to SecVerUDO.VerUDA as shown below

Custom Duon	cs - chylish (onaccu states)		- CD	
Custom Prope	erties + -	Secv	erCP	Verified WriteGrap
Name OperatorNameCP SecVerCP	Default Value InTouch: \$Operator SecVerUDO.VerUDA	Data <u>Type</u> Default <u>Y</u> alue Visibility	2 of 2 Integer SecVerUDO.VerUDA Public (Property can be seenv C Private (Property is hidden w	∠ ✓ ∴ when symbol is embedded) hen symbol is embedded)
Satus		-		<u>×</u>
The property is configured 'SecVerUDO.VerUDA'.	as a reference to			OK Cancel

FIGURE 26: CUSTOM PROPERTY SECVERCP

10. Assign a Value Display animation to the ### (for Operator Name text) to **OperatorNameCP** (Figure 27 below).

Edit Animations	English (United	States)		
Animations	s +	1.0 Value	Display 1of1 ▶	Text2
Visualization		States	Boolean Analog String Time N	lame
Value Display	Enabled 💌	Expression Or Refer	ence	
		String	OperatorNameCP	
(4)				OK Cancel

FIGURE 27: OPERATORNAMECP VALUE DISPLAY

11. Assign a Value Display Analog animation to ### for the Sec\Ver Value and reference it to SecVerCP (Figure 28 below).



FIGURE 28: SECVERCP VALUE DISPLAY

12. Add the following Action Script on the **SignedWrite** button:

Dim Result as Integer; Result = SignedWrite("SecVerCP", 90, "Changing the Temperature", False, 2, SecVerUDO.TemperatureChangeList[]);

🞼 Edit Animations - Eng	lish (United States			_O×
Animations	+	Action Scripts		Button1
Interaction				۲
Action Scripts	Enabled 👱	Key Equivalent 🗌 Ctri 🔲 Shift Key None	scripts used:	1
		Irigger type: On Left Click/Key Down	Every:	ms
			to A	m ک ا
		Line: 1 Col: 1		
•			OK	Cancel

FIGURE 29: SCRIPT EDITOR

- 13. Save and CheckIn the \$SecVerUDO object.
- 14. Create a new derived InTouchViewApp called **SecVerApp**.
- 15. Create an InTouch Window call it VerifiedWrite Window.
- 16. Embed the VerifiedWriteGraphic on the InTouch Window (Figure 30 below).



FIGURE 30: EMBEDDED VERIFIEDWRITE WINDOW

- 17. On the main menu, click Special->Security->Select Security Type as ArchestrA.
- 18. Deploy all the objects. (WinPlatform_001, AppEngine_001, Area_001, SecVerUDO).
- 19. Switch to Runtime mode.
- 20. Click Special->Security->Log on.

Login as **Operator** and password **operator** as the above security model. Notice if you login as Operator then the OperatorName will be Jeff Smith since that is what is configured in the Galaxy security above.



FIGURE 31: SECURED OPERATOR LOGIN

21. Now click on the **SignedWrite** button and notice the Verified Write dialog box appears. It asks for signature to change the value (Figure 32 below).

erified Wr	ite		
Changing	the Temperature		
Attribute	SecVerUD0.VerUDA	Value 90	
Comment	Select predefined comment		-
			4
Operator		Verifier	2
Mo	de	Mode	
13	Username Operator	Username	
	Password	Password	
	Domain ArchestrA	Domain ArchestrA	
			Cancal
		UK	Lancel

FIGURE 32: VERIFIED WRITE DIALOG BOX

Notice that the Verified Write dialog also asks the Operator to sign, as well as the Verifier. This is because the **VerUDA** had **Verified Write** security classification.

For this example, the user name and password:

Operator: UserName : Operator Password: operator

Verifier: UserName: Supervisor Password: supervisor

Notice there is Pre-defined comment list as we set it in the script (Figure 33 below).

	the Temperature	
uttribute	SecVerUD0.VerUDA	Value 90
omment	Select predefined comment	
	Select predefined comment Reset theTemperature Increase the Temperature Decrease the Temperature	
Operator	de —	Verifier Mode
	Username Operator	Username
9	Password	Password
10.00		

FIGURE 33: PREDEFINED COMMENTS FROM UDA ARRAY

22. Since the Operator had permissions to modify the value changed and now in WindowViewer you notice the change (Figure 34 below).



FIGURE 34: VERIFIED WRITE SUCCESSFUL

Return values indicate success or failure status.

- A non-zero value indicates type of failure.
- For more help on the different return values, refer to the Scripting.pdf/page 62 for Wonderware Application Server 3.5

Note: A return value of **O** does not indicate whether the attribute was updated, only that the function placed an entry on the queue to write to the attribute. The operator may decide to cancel the operation after the Secured Write or Verified write dialog box is displayed.

In this case the attribute is not updated and a message is placed in the Logger indicating that the user canceled the operation. Even if the user enters valid credentials and clicks OK, the attribute still might not have been updated because of inadequate permission or data coercion problems.

SignedWrite() Scripting Tips

Using Bound References in SignedWrite()

If the Attribute parameter string evaluates to the name of a Custom Property and that Custom Property is a bound reference to an Attribute, the SignedWrite() function will write to that indicated Attribute.

The Attribute must have the security classification of Secured Write or Verified Write.

• The SignedWrite() function supports Custom Properties that are nested bound references. That is, if the string evaluates to the name of a Custom Property and that Custom Property is a bound reference to another Custom Property (which itself is a bound reference), the SignedWrite() function will follow through the chain of bound references until it finds an item that is a value. If that item is an Attribute that has the security classification of Secured Write or Verified Write, the SignedWrite() function will write to that item.

Using SignedWrite() in WhileTrue, WhileFalse, or Periodic Type Scripts

Using the SignedWrite() function with WhileTrue, WhileFalse, or Periodic type scripts can repeatedly execute the script, causing another secured write dialog box to pop up with each trigger. We do not recommend using the SignedWrite() function with WhileTrue, WhileFalse, or Periodic types.

Using SignedWrite() with OnShow and OnHide Scripts

We do not recommend using the SignedWrite() function with OnShow and OnHide scripts. This can cause issues with window functionality, including the window title bar, windows losing correct focus, and windows opening on top of one another.

Note: The SignedWrite() function is supported only for client scripting and not for object scripting.

B. Shah

Tech Notes are published occasionally by Wonderware Technical Support. Publisher: Invensys Systems, Inc., 26561 Rancho Parkway South, Lake Forest, CA 92630. There is also technical information on our software products at Wonderware Technical Support.

For technical support questions, send an e-mail to wwsupport@invensys.com.



© 2012 Invensys Systems, Inc. All rights reserved. No part of the material protected by this copyright may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, broadcasting, or by anyinformation storage and retrieval system, without permission in writing from Invensys Systems, Inc. Terms of Use.