

Preventing the modification of .BVP files within the ADL Shell / Cary WinUV Environment

Abstract:	This document outlines the potential risk for data modification outside of the SoloVPE Software and provides, in detail, suggested Windows NTFS security configurations for a secured network data storage location. These configurations will prevent unauthorized access to SoloVPE data and prevent data storage to unauthorized locations. C Technologies, Inc. recommends that all data is saved to a secured network location.
Applicability:	This article applies to SoloVPE Software V3.X.XXX running in the Agilent Cary WinUV (Version 5) environment on a Windows 7 Professional (32/64-bit) or Windows 10 Professional (32/64-bit) operating system with an NTFS file system on the system hard disk.
Symptom:	Not Applicable
Cause:	Should a user open an ADL Shell window (Independent of the SoloVPE Software or unconnected to the current SoloVPE Software window), it is possible to overwrite and or modify .BVP files.
Definitions:	 ADL Shell: Scripting language designed to manipulate the Cary WinUV environment .BVP/batch file: The file extension SoloVPE software uses for data NTFS: NT File System permissions are used to manage access to data stored SoloVPE Software: A software module used to run SoloVPE system SecureVPE: An add-on module that configures the User/Group permissions for SoloVPE and QuickVCA software modules Cary WinUV Software: The software environment that interfaces directly with the Cary 60 Cary 60: A model of spectrophotometer used with the SoloVPE instrument Users: End users of SoloVPE, people who use the SoloVPE to analyze samples

Detailed Information:

The following steps outline how to organize permissions to a network folder where users can save all data generated by the SoloVPE Software, but not modify or delete the data. The prevention of unauthorized modification of data is key to having a compliant system. For companies that wish to prevent users from viewing any data after it is saved we recommend removing the permission "List folder contents". This prevents users from seeing any files should they open file explorer.

Note: Inherited permissions must be disabled to fully secure the files.

For users wishing to save locally instead of on a network drive, the VPE System Service needs to be installed and running so that the user that is creating the data is not the owner of the data. Windows NTFS permissions when mixed with file ownership cause conflict and cause users to have more rights than assigned in Security. To help overcome this issue C Technologies Inc. has added the VPE System Service feature to SoloVPE Software v3.1.

A set of permissions exist that blocks users from viewing files in a folder where users should be saving all data to, but still being allowed to write to it. (Essentially, a folder that they can see exists, but the contents are invisible and untouchable). This allows data to be securely stored and accessed for review (by authorized users) without fear of manipulation.

Users must have their permissions explicitly set this way so that any unauthorized editing, modification, or deletion is prevented.

Windows 10:

- 1. To determine who has access and to correct the issue, navigate to the Default Save Path location and right click on the folder.
- 2. Select Properties.



3. Select the Security tab and click Advanced

📕 Product Pr	operties	Х	Product Properties	\times
General Secu	rity Previous Versions Customize		General Security Previous Versions Customize	
L	Product		Object name: I:\Public\SoloVPE Saved Data\Product	
Type: Location:	File folder I:\Public\SoloVPE Saved Data	-	Group or user names: John F. Sirico (JSirico@bridgewater.ctechnologiesinc.com) Administrator Momain Users (BRIDGEWATER\Domain Users)	
Size: Size on disk: Contains:	0 bytes 0 bytes 0 Files 0 Folders		To change permissions, click Edit. Edit	
Created:	Today, February 22, 2019, 1 hour ago	-	Full control Modify	^
Attributes:	 Read-only (Only applies to files in folder) Hidden Advanced 		Read & execute List folder contents Read	*
			For special permissions or advanced settings, Advanced click Advanced.	
	OK Cancel Apply	/	OK Cancel Appl	у

4. Ensure that "Replace all child object permission entities with inheritable permission entities from this object" is checked off.

5. Disable Inheritance for all users listed.

wmr: Ionathan Mylotte (JMylotte@ctechnologiesinc.com) Change Permissions Share Audting Effective Access or additional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available). emission This Folder, subfolders and files Ype Principal Access Inherited from Applies to Allow Domain Users (BRIDGEWATER Special I.Yubulic/. This folder, subfolders and files Allow Administrator Full control IA This folder, subfolders and files Add Permove View Preside inheritance Jeable inheritance Janes I.Yubulic/. Concel Applie Advanced Security Settings for Product Image: Inherited from Applies to Mare: I.Yubulic/SoleVPE Saved Data/Product Image: Inherited from Applies to Type Principal Access Inherited from Applies to Type Principal Access Inherited from Applies to Type Principal Access Inherited from Applies to Monto Da	lame:	I:\Public\SoloVPE	Saved Data	Product		
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Now Domain Users (BRIDGEWATER Special LiPublic(\ This folder, subfolders and files Allow John F. Sirico (JSirico@bridge Full control Li This folder, subfolders and files Allow Administrator Full control Li This folder, subfolders and files Allow Administrator Full control Li This folder, subfolders and files Add Remove View View Disable inheritance JReplace all child object permission entries with inheritable permission entries from this object OK Cancel Apple Advanced Security Settings for Product Image: LiPublic(\SoloVPE Saved Data\Product - - Image: Jonathan Mylotte (JMylotte@ctechnologiesinc.com) Change Permissions Share Auditing Effective Access or additional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available), ermission entries: Type Principal Access Inherited from Applies to Allow Jonain Users (BRIDGEWATER Special None This folder, subfolders and files Allow Allow John F. Sirico (JSirico@bridge Full control None	Tures	Dringing!		A	In herited from	Annlingto
Allow Johnsh Oses (bioOctivitian special in Product in Strong) and the second in Secon		Principal Domain Users (BBIE	GEWATER	Special	Innented from	Applies to This folder, subfolders and files
Allow Administrator Full control IA This folder, subfolders and files Add Remove View Disable inheritance Image: State of the sta	Allow	John F. Sirico (JSiric	o@bridge	Full control	l:\	This folder, subfolders and files
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Replace all child object permission entries with inheritable permission entries from this object OK Cancel Appl Advanced Security Settings for Product — — ame: I:\Public\SoloVPE Saved Data\Product Change — termission Mating Effective Access — — ardiditional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available). = <	Add Disable inh	Remove	View			
Advanced Security Settings for Product ame: I\Public\SoloVPE Saved Data\Product wner: Jonathan Mylotte (JMylotte@ctechnologiesinc.com) Change remissions Share Auditing Effective Access Inherited from Applies to rrmission entries: Type Principal Access Inherited from Applies to Allow Domain Users (BRIDGEWATER Special None This folder, subfolders and files Allow John F. Sirico (JSirico@bridge Full control None This folder, subfolders and files Allow Administrator (BRIDGEWATER Special None This folder, subfolders and files Allow John F. Sirico (JSirico@bridge Full control None This folder, subfolders and files Allow Administrator (BRIDGEWATER Full control None This folder, subfolders and files Add Remove View Trable inheritance Replace all child object permission entries with inheritable permission entries from this object	Replace all	child object permiss	sion entries wi	th inheritable permission	entries from this object	OK Cancel Anni
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Enable inheritance	Advanced Se lame: wner: Permissions or additional ermission en Type Allow Allow Allow	ecurity Settings for P I:\Public\SoloVPE Jonathan Mylotte Share I information, doubl stries: Principal Domain Users (BRIE John F. Sirico (JSiric Administrator (BRIE	roduct E Saved Data\I e (JMylotte@c Auditing e-click a perm DGEWATER co@bridge DGEWATER	Product technologiesinc.com) C Effective Access nission entry. To modify a Access Special Full control Full control	hange permission entry, select Inherited from None None None None	the entry and click Edit (if available). Applies to This folder, subfolders and files This folder, subfolders and files
replace an entra object permission entries wan innertable permission entries normalis object	Advanced Se lame: wner: Permissions or additional ermission en Type Allow Allow Allow Allow	ecurity Settings for P I:\Public\SoloVPE Jonathan Mylotte Share I information, doubl atries: Principal Domain Users (BRIE John F. Sirico (JSiric Administrator (BRIE	roduct E Saved Data\I e (JMylotte@c Auditing e-click a perm DGEWATER DGEWATER DGEWATER	Product technologiesinc.com) C Effective Access nission entry. To modify a Access Special Full control Full control	hange permission entry, select Inherited from None None None	the entry and click Edit (if available). Applies to This folder, subfolders and files This folder, subfolders and files

6. To add a user to the list, click "Add".

7. Click on "Select a principal".

Permission	Entry for Saved Files		- C		×
Principal:	Select a principal				
Туре:	Allow ~				
Applies to:	This folder, subfolders and files $\qquad \lor$				
Basic permi	ssions:	Show adva	nced per	missio	ns
	Full control				
	Modify				
	Read & execute				
	List folder contents				
	Kead				
	WHTE				
Only app	ly these permissions to objects and/or containers within this container		Cle	ear all	
Add a cond	ition to limit access. The principal will be granted the specified permissions only if conditions are met.				٦
Add a cond	ition				
		OK		Cance	

8. In the pop-up, type the users name and click "Check Names" to pull up their active directory user account. Then click "OK".

Select User, Computer, Service Account, or Group		×
Select this object type:		
User, Group, or Built-in security principal		Object Types
From this location:		
bridgewater.ctechnologiesinc.com		Locations
Enter the object name to select (<u>examples</u>):		
Sara Haydu (SHaydu@ctechnologiesinc.com)		Check Names
Advanced	OK	Cancel

- 9. Click on "Show advanced permissions".
- 10. Set the permissions for each user according to the following figure. Then click "OK".

Permission	Tenty for Product		
Principal:	Sara Haydu (SHaydu@ctechnologiesinc.com) Select a princip	al	
Гуре:	Allow		
Applies to:	This folder, subfolders and files $\qquad \qquad \lor$		
Advanced p	permissions:		Show basic permission
	Full control	✓ Write attributes	
	Traverse folder / execute file	Write extended attributes	
	☑ List folder / read data	Delete subfolders and files	
	Read attributes	Delete	
	Read extended attributes	Read permissions	
	Create files / write data	Change permissions	
	Create folders / append data	Take ownership	
Only app	ly these permissions to objects and/or containers within this con	tainer	Clear all
Add a cond	ition to limit access. The principal will be granted the specified p	ermissions only if conditions are met.	
Add a cond	ition		

11. Once all users have been accounted for, click "Apply" and "OK".

Van	ne:	I:\Public\SoloVPE Save	d Data\Pr	oduct		
Dwi	ner:	Jonathan Mylotte (JMy	lotte@cte	chnologiesinc.com)	Change	
Per	missions	Share A	uditing	Effective Access		
'err	nission er Type	ntries: Principal	,	Access	Inherited from	Applies to
97	Allow	Domain Users (BRIDGEW)	ATER S	Special	None	This folder, subfolders and files
2	Allow	John F. Sirico (JSirico@br	idge I	Full control	None	This folder, subfolders and files
2	Allow	Administrator (BRIDGEW)	ATER I	Full control	None	This folder, subfolders and files
2	Allow	Sara Haydu (SHaydu@cte	echn S	Special	None	This folder, subfolders and files
_						
E	Add nable inh	Remove Ec	lit			

Note:

Folder ownership is recommended to be a network administrator, especially a user or group that is not involved in the generation or review of data in the laboratory.

Folder ownership is modified as follows:

1. Click on Change

Nan	ne:	I:\Public\SoloVPE Saved	Data		
Dwi	ner:	Jonathan Mylotte (JMylo	tte@ctechnologiesi	nc.com) <u>Change</u>	
Per	missions	Share Au	diting Effective	Access	
2	Type Allow Allow Allow	Principal Domain Users (BRIDGEWAT John F. Sirico (JSirico@brid Administrator	Access Fe Special ge Full control Full control	Inherited from I:\Public\ I:\ I:\	Applies to This folder, subfolders and files This folder, subfolders and files This folder, subfolders and files
[Add Disable in	Remove View			

2. Type in the name of the Administrator or the Administrator group.

elect this object type:			
Jser, Group, or Built-in security principal	Object Types		
rom this location:			
ridgewater.ctechnologiesinc.com	Locations		
nter the object name to select (examples):		entry, select	t the entry and click Edit (if available).
	Check Names		
		d from	Applies to
		N	This folder, subfolders and files
Advanced OF	Cancel		This folder, subfolders and files
-			This folder, subfolders and files
Add Remove View			

3. Click OK once the user or group has been identified

ect User, Computer, Service Account, or Group ect this object type:	×		
ect this object type:			
er, Group, or Built-in security principal	Object Types		
m this location:			
dgewater.ctechnologiesinc.com	Locations		
er the object name to select (examples);		entry, select t	he entry and click Edit (if available).
ministrator	Check Names		
		d from	Applies to
		X	This folder, subfolders and files
Advanced QK	Cancel		This folder, subfolders and files
-			This folder, subfolders and files
<u></u>			
Add Remove View			
Disable inheritance			
bisore internetice			
Replace all child object permission entries with inheritable	permission entries fro	m this object	
		_	OK Canada Anala

4. Click Apply once done

w	ne: ner:	I:\Public\SoloVPE Saved Data Administrator (BRIDGEWATER Replace owner on subcont	\Administrator) Changi ainers and objects	E	
Per	missions	Share Auditin	g Effective Access		
or err	addition mission e	al information, double-click a perr ntries:	nission entry. To modify	a permission entry, select	the entry and click Edit (if available).
	Туре	Principal	Access	Inherited from	Applies to
2	Allow	Domain Users (BRIDGEWATE	Special	I:\Public\	This folder, subfolders and files
2	Allow	John F. Sirico (JSirico@bridge Administrator	Full control Full control	l:\ l:\	This folder, subfolders and files
	Add	Remove View			
)isable in	heritance			
C					

Windows 7:

- 1. To determine who has access and to correct the issue, navigate to the Default Save Path location and right click on the folder.
- 2. Select Properties.

Computer + Computer + C	Company (\\CTIFSSVR3) (L) Public SoloVPE Saved Data		Search SoloVPE Saved Data
Organize - 😭 Open N	New folder		# • 🔳 🔞
🚖 Favorites 👌 Nam	me Date modified	Type Size	
Desktop Desktop Desktop Downloads Recent Places Duraries Decuments Decuments Platures Platures Platures Computer Local Disk (C.)	Product Open Open in new window Always available offline Restore previous versions Send to Cut Cap Create shortcut Delete Bename	File folder	
Network 665-TEST-1 ANSIGNENTI ANSIGNENTI BARCODE1 BARCODE1 BARCODE2 BARCODE2 BARCODE4 BARCODE5 BROWN3	Properties		

3. Select the Security tab and click "Advanced".

Product Properties	Product Properties
General Security Previous Versions Customize	General Security Previous Versions Customize
Product	Object name: I:\Public\SoloVPE Saved Data\Product
Type: File folder Location: I:\Public\SoloVPE Saved Data Size: 0 bytes Size on disk: 0 bytes	Group or user names: John F. Strico (BRIDGEWATER\JStrico) Administrator (BRIDGEWATER\Administrator) Domain Users (BRIDGEWATER\Domain Users) To change permissions, click Edit. Edit
Contains: 0 Files, 0 Folders	Permissions for John F. Sirico Allow Deny
Created: Friday, February 22, 2019, 2:29:59 PM	Full control
Attributes: <u>Read-only (Only applies to files in folder)</u> <u>H</u> idden <u>Advanced</u>	Head & execute Image: Contents List folder contents Image: Contents Read Image: Contents For special permissions or advanced settings, click Advanced Learn about access control and permissions
OK Cancel Apply	OK Cancel Apply

4. Click on "Change Permissions".

<u>)</u> , (Advanced	d Security Settings for Produc	:t		.			
Pe	Permissions Auditing Owner Effective Permissions							
1	To view details of a permission entry, double-click the entry. To modify permissions, click Change Permissions.							
	Object name: I:\Public\SoloVPE Saved Data\Product							
F	Permission	entries:						
	Туре	Name	Permission	Inherited From	Apply To			
	Allow	Domain Users (BRIDGE	Special	<not inherited=""></not>	This folder, subfolders and			
	Allow	John F. Sirico (BRIDGEW	Full control	<not inherited=""></not>	This folder, subfolders and			
	Allow	Administrator (BRIDGEW	Full control	<not inherited=""></not>	This folder, subfolders and			
	Change	Parriesian						
	Lhange	Permissions						
	Include	inheritable permissions from this	object's parent					
1	Managing permission entries							
				ОК	Cancel Apply			

5. Uncheck "Include inheritable permissions from this object's parent".

Advance	d Security Settings for Produc	:t					
Permissions							
To view or edit details for a permission entry, select the entry and then click Edit.							
Object nar Permission	Object name: I:\Public\SoloVPE Saved Data\Product Permission entries:						
Туре	Name	Permission	Inherited From	Apply To			
Allow	Domain Users (BRIDGEW	Special	<not inherited=""></not>	This folder, subfolders a			
Allow	John F. Sirico (BRIDGEW	Full control	<not inherited=""></not>	This folder, subfolders a			
Allow	Administrator (BRIDGEW	Full control	<not inherited=""></not>	This folder, subfolders a			
Add	J Edit	Remove					
📃 Include	e inheritable permissions from th	is object's parent					
Replace all child object permissions with inheritable permissions from this object							
Managing	Managing permission entries						
			ОК	Cancel Apply			

6. Click "Add" to modify those users already listed in the Advanced Security Settings for the default save path location. Once you locate the user or group to add, click "OK".

📙 Adv	vanced Security Settings for Product		23
Perm	issions Auditing Owner Effective Permissions		
T	Advanced Security Settings for Product	- 110 P	· ·
9	Select User, Computer, Service Account, or Group	? 💌	
	Select this object type:		
-	User, Group, or Built-in security principal	Object Types	
	From this location:		
	bridgewater.ctechnologiesinc.com	Locations	
	Enter the object name to select (<u>examples</u>):		ply To
	Sara Haydu (SHaydu@ctechnologiesinc.com)	Check Names	is folder, subfolders a is folder, subfolders a
			is folder, subfolders a
	Advanced OK	Cancel	
ЧL		-11	
-	Add Edit Remove		
Ŀ	Include inheritable permissions from this object's parent		
	Replace all child object permissions with inheritable permissions fro	m this object	
PM	Managing permission entries		
	L	ок	Cancel Apply

7. Double click on each user to modify their permissions.

8. In the Permission Entry for the default save path location's Pop-up, ensure that only the following boxes are checked. Then click OK.

Permission Entry for Product		Permission Entry for Product	X
Object		Object	
Name: aydu (SHaydu@ctechnologiesinc.com)	Change	Name: aydu (SHaydu@ctechnologiesinc.com)	Change
Apply to: This folder, subfolders and files	•	Apply to: This folder, subfolders and files	
Permissions: Allow	Deny	Permissions: Allow	Deny
Full control		Read attributes	
Traverse folder / execute file		Read extended attributes	
List folder / read data		Create files / write data	
Read attributes		Create folders / append data	
Read extended attributes		Write attributes	
Create files / write data 🔍		Write extended attributes	
Create folders / append data		Delete subfolders and files	
Write attributes		Delete	
Write extended attributes		Read permissions	
Delete subfolders and files		Change permissions	
Delete		Take ownership	
Apply these permissions to objects and/or containers within this container only	Clear All	Apply these permissions to objects and/or (containers within this container only	Clear All
Managing permissions		Managing permissions	
ОК	Cancel	ОК	Cancel

9. Click Apply and OK

To view or	edit details for a permission en	try, select the entry	y and then click Edit.	
Object nar	me: I:\Public\SoloVPE Save	d Data\Product		
Permission	entries:			
Туре	Name	Permission	Inherited From	Apply To
Allow	Domain Users (BRIDGEW	Special	<not inherited=""></not>	This folder, subfolders a
Allow	John F. Sirico (BRIDGEW	Full control	<not inherited=""></not>	This folder, subfolders a
Allow	Administrator (BRIDGEW	Full control	<not inherited=""></not>	This folder, subfolders a
Allow	Sara Haydu (SHaydu@ct	Special	<not inherited=""></not>	This folder, subfolders a
Add	Edit e inheritable permissions from th e all child object permissions wit	Remove is object's parent h inheritable permis	sions from this object	

Folder ownership is modified as follows:

1. Click on Owner tab

o view de Ibject nar	etails of a permission entry, doub me: I:\Public\SoloVPE Sav	le-click the entry. To ed Data\Product	o modify permissions, click	Change Permissions.
ermission Tupe	entries:	Permission	Inherited From	Apply To
Allow	Domain Users (BBIDGE	Special	<not inherited=""></not>	This folder, subfolders and
Allow	JSirico (BRIDGEWATER	Full control	<not inherited=""></not>	This folder, subfolders and
Allow	Administrator (BRIDGEW	Full control	<not inherited=""></not>	This folder, subfolders and
Change	Permissions			
Include	e inheritable permissions from this	object's parent		
lanaging	permission entries			

2. Click Edit to modify the folder owner

🕌 Advanced Security Settings for Product 🛛 💽
Permissions Auditing Owner Effective Permissions
You can take or assign ownership of this object if you have the required permissions or privileges.
Object name: I:\Public\SoloVPE Saved Data\Product
Current owner:
JMylatte (BRIDGEWATER JMylatte)
Change owner to:
Name
& Administrators (CTIFSSVR3\Administrators) VPELocalAdmin (SOL021959\VPELocalAdmin)
Edit.
Learn about object ownership
OK Cancel Apply

3. In the Advanced Security Settings for Product pop-up if the user or group you want to own the folder is not listed click on Other users or groups. If the user or group is listed skip to step 5.

Advanced Securit	y Settings for Product	•			×
Owner					
You can take or as:	sign ownership of this object if you have th	he required pe	rmissions or privile	eges.	
Object name: I	:\Public\SoloVPE Saved Data\Product				
Current owner:					
JMylotte (BRIDGE)	WATER\JMylotte)				
Change owner to:					
Name					
& Administrators & VPELocalAdm	(CTIFSSVR3\Administrators) in (SOLO21959\VPELocalAdmin)				
Other users of Replace owner	groups) on subcontainers and objects				
Learn about object	ownership				
			OK	Cancel	Apply

4. If you click on Other users or groups then type their name in the pop-up, click Check Names and click ok. Skip to step 5 if you chose from the available list in step 3.

Select User, Computer, Service Account, or Group	? 🔀
Select this object type:	
User, Group, or Built-in security principal	Object Types
Erom this location:	
bridgewater.ctechnologiesinc.com	Locations
Enter the object name to select (<u>examples</u>):	
Service Dept	Check Names
Advanced	OK Cancel

5. Select the name from the list and click OK

Advanced Security Settings for Product	×
Owner	
You can take or assign ownership of this object if you have the required permissions or privileges.	
Object name: I:\Public\SoloVPE Saved Data\Product	
Current owner:	
JMylotte (BRIDGEWATER\JMylotte)	
Change owner to:	
Name	
& Administrators (CTIFSSVR3\Administrators)	
Service Dept (bridgewater\Service Dept)	
Kenter Strate St	
Other users or groups	
Replace owner on subcontainers and objects	
Learn about object ownership	
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Rev	Date	Changes	Initials			
00	2019-04-22	Initial Release	JM			

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