Audit Triggers in SoloVPE Software Suite 3.X.XXX.X

Abstract:	This document outlines a list of all Audit Triggers that appear within the Audit Log Viewer of the SoloVPE Software Suite Version 3.X.XXX.X.
Applicability:	This applies to the SoloVPE Software Suite version 3.X.XXX.X. The Audit Logs include General Audit, Extinction Coefficient, SecureVPE, and E-signatures logs. Certain features may not be included depending on the software version. Please refer to the SoloVPE Software Release Notes for further information regarding the differences between the versions.
Symptom:	N/A
Cause:	Application of SoloVPE software.
Detailed Info:	The General Audit log captures changes made in the SoloVPE software, SoloVPE administration, and QuickVCA software by the end user. The Audit Trigger column lists what happened in the software and the Action ID column covers the actions the user attempted in the software.

General Audit	
Audit Trigger	**Action ID**
Bad Quick Check reading	Poor Quick Check Reading
Clicked on manual EsSign button	PostESignSaveAttempt
Entered the correct password in SoloVPE	System Load
Entered the correct password for initial log on to the SoloVPE software	Perimeter Authentication
Entered the wrong password in SoloVPE	System Load
Entered the wrong password for initial log on to the SoloVPE software	Perimeter Authentication
Let instrument sit idle and then, when prompted, put in password successfully	InactivityLogin
Open the software	System Load
Too great a change between coupler checks	Coupler Check Change Threshold Exceeded
Used Save Data button/autosave but did not have permission to write to location	SaveBatchAttempt
Used Save Data button/autosave with permission to write to location	SaveBatchAttempt
Used Save Method button with permission to write to location	SaveMethodAttempt
Added check for EC Library button under UI Options	UI Setting Change
Changed a SoloVPE setting in SoloAdmin for Enable Session Logging	Solo Setting Change
Changed a SoloVPE setting in SoloAdmin for Export Log	Solo Setting Change

Changed AbsDisplayDigits	Solo Setting Change
Changed AutosaveDefaultState	Solo Setting Change
Changed AutosaveRTF	Solo Setting Change
Changed ConcDisplayDigits	Solo Setting Change
Changed DecimalDisplayDigits	Solo Setting Change
Changed Default FSlope Datapoints	Solo Setting Change
Changed Default FSlope PL Start	Solo Setting Change
Changed Default FSlope PL Step	Solo Setting Change
Changed Default FSlope WL List	Solo Setting Change
Changed Default High Abs Limit	Solo Setting Change
Changed Default Low Abs Limit	Solo Setting Change
Changed Default Min Slope R2	Solo Setting Change
Changed Default MQSlope WL List	Solo Setting Change
Changed Default QSlope AvgTime	Solo Setting Change
Changed Default QSlope Datapoints	Solo Setting Change
Changed Default QSlope Target Abs	Solo Setting Change
Changed Default QSlope Wavelength	Solo Setting Change
Changed Default Slope Mode	Solo Setting Change
Changed DefaultDateFormat	Solo Setting Change
Changed DefaultDateTimeFormat	Solo Setting Change
Changed DefaultMethodPath	Solo Setting Change
Changed DefaultSavePath	Solo Setting Change
Changed DefaultTimeFormat	Solo Setting Change
Changed DefaultVessel	Solo Setting Change
Changed DoubleZeroEnabled	Solo Setting Change
Changed DoubleZeroStep	Solo Setting Change
Changed ECDisplayDigits	Solo Setting Change
Changed EnableSessionLogging	Solo Setting Change
Changed ExportLogWithCSV	Solo Setting Change
Changed inactivity timer limit	Solo Setting Change
Changed InactivityThreshold	Solo Setting Change
Changed IncrementalAutosaveFolder	Solo Setting Change
Changed IncrementalAutosavePath	Solo Setting Change
Changed InitialRepDelay	Solo Setting Change
Changed MaxRepDelay	Solo Setting Change
Changed MethodDisplayDigitsEnabled	Solo Setting Change
Changed PathlengthDisplayDigits	Solo Setting Change
Changed PlotThresholdSection	Solo Setting Change
Changed Primary HGraphX	Solo Setting Change
Changed Primary HGraphY	Solo Setting Change
Changed Primary VGraphX	Solo Setting Change
Changed Primary VGraphY	Solo Setting Change
Changed QSlopeReportTitle	Solo Setting Change
Changed R2DisplayDigits	Solo Setting Change
Changed ReplicateRetreatStep	Solo Setting Change

Changed RepLimit	Solo Setting Change
Changed ReportGraph	Solo Setting Change
Changed ReportXScale	Solo Setting Change
Changed ReportYScale	Solo Setting Change
Changed SafetyPath	Solo Setting Change
Changed SecondsDisplayDigits	Solo Setting Change
Changed SessionLogType	Solo Setting Change
Changed SlopeDisplayDigits	Solo Setting Change
Changed StatsDisplayDigits	Solo Setting Change
Changed the fixed	Device Setting Change
Changed the model number	Device Setting Change
Changed the serial number	Device Setting Change
Changed the SoloVPE setting in SoloAdmin to Grant Admin Ownership of Local BVP files from Off to On	System Setting Change
Changed the SoloVPE setting in SoloAdmin to Grant Admin Ownership of Local BVP files from On to Off	System Setting Change
Changed the step size	Device Setting Change
Changed the zero	Device Setting Change
Changed TransDisplayDigits	Solo Setting Change
Changed VerboseLoggingEnabled	Solo Setting Change
Changed WavelengthDisplayDigits	Solo Setting Change
Removed check for EC Library button under UI Options	UI Setting Change
Do not have permission to use the Zero Wizard	Set Zero Wizard
Added vpe install to the system service	VPE System Service Install
Added vpe uninstall to the system service	VPE System Service Uninstall
Removed vpe uninstall to the system service	VPE System Service Uninstall
Removed vpe install to the system service	VPE System Service Install
Started the VPE System Service	Starting VPE System service
Stopped the VPE System Service	Stopping VPE System service
Added a manual entry to the audit log	Manual Audit Log Entry
Removed a manual entry to the audit log	Manual Audit Log Entry
Entered the correct password in QVCA	System Load
Entered the correct password for initial log on to the QVCA software	Perimeter Authentication
Entered the wrong password in QVCA	System Load
Entered the wrong password for initial log on to the QVCA software	Perimeter Authentication
Used Save Data button/autosave with permission to write to location	SaveBatchAttempt
Used Save Method button but did not have permission to write to location	SaveMethodAttemptError
User attempted to log in but could not verify against the server	User Authentication
Grant Admin Ownership of Local BVP Files	FileLock

Force Close ADL on Lock/Switch User	ForceClose
Disable SoloVPE (WinUV) Menus	MenuSecure
File Ownership Changed from User to Administrators	Creation of .BVP files
Analyze Tool Initiated	Analyze
.BVP file successfully saved	AutoSaveAttempt
.BVP file saved to AutoSave Location	AutoSaveTargetSpecified
.BVP file updated with new data point as part of sample analysis	IncrementalAutoSaveAttempt
User clicked on Home Sidebar button	Home
User clicked on Manual Sidebar button	ManualControls
User clicked on New Run Sidebar button	NewRun
Coupler Optimization Event	Optimize Coupler
System autosaving to RTF and required eSignature to complete	PostESignRtfSaveAttempt
Quick Check Tool Initiated	QuickCheck
Quick Slope Collect Routine Completed	QuickSlopeCollect
Quick Slope Collect Routine Initiated	QuickSlopeCollect
Quick Survey Initiated	QuickSurvey
Quick Survey Baseline Collect Routine Initiated	QuickSurveyBaseline
Quick Survey Collect Routine Initiated	QuickSurveyCollect
Report Tool Initiated	Report
Save Data Sidebar Initiated	SaveData
Software Closed causing run to be Interupted	Admin Override Authentication
Section Tool Initiated	Section
Zero Step Position	Set Zero

The Extinction Coefficient log documents every time a modification is made to the EC Library. To modify the EC Library, users can access the SoloVPE software EC Library sidebar button or they can navigate through the EC Library Editor application.

Extinction Coefficient	
Audit Trigger	**Action ID**
Extinction Coefficient Added	EC Library Added

Extinction Coefficient Added	EC Library Added
Extinction Coefficient Deleted	EC Library Deleted
Extinction Coefficient Inserted	EC Data Inserted
Extinction Coefficient Library Exported	EC Library exported from file: 'C:\Users\jmylotte\Documents\1.ecf'
Extinction Coefficient Library Imported	EC Library Imported from file: 'C:\Users\jmylotte\Documents\1.ecf'

The SecureVPE log, when SecureVPE is enabled, captures changes made to secure points for Group and User accounts in the SecureVPE software.

SecureVPE	
Audit Trigger	**Action ID**
Added access to Esignatures Enabled (eSign)	Secure Point Assignment
Added access to Home Sidebar Button (Sidebar)	Secure Point Assignment
Added access at QVCA Method Modification (Method)	Secure Point Assignment
Added access to Coupler Check Access (Administration)	Secure Point Assignment
Added access to Admin Sidebar Button (Sidebar)	Secure Point Assignment
Added access to Advanced Settings Access Enabled (Method)	Secure Point Assignment
Added access to Allow Default Path Subfolders (Administration)	Secure Point Assignment
Added access to Analyzer Sidebar Button (Sidebar)	Secure Point Assignment
Added access to Arrange Graphs - HB (Toolbar)	Secure Point Assignment
Added access to Arrange Graphs - HT (Toolbar)	Secure Point Assignment
Added access to Arrange Graphs - VL (Toolbar)	Secure Point Assignment
Added access to Arrange Graphs - VR (Toolbar)	Secure Point Assignment
Added access to Autosave Optional (Autosave)	Secure Point Assignment
Added access to Clear Rectangles Toolbar Button (Toolbar)	Secure Point Assignment
Added access to DAQ View Enabled (Method)	Secure Point Assignment
Added access to DAQ View Optional (Method)	Secure Point Assignment
Added access to EC Edits Allowed (Administration)	Secure Point Assignment
Added access to EC Library sidebar button (Sidebar)	Secure Point Assignment
Added access to Esign EC Events Optional (Esign)	Secure Point Assignment
Added access to ESign Override Rights Enabled (Esign)	Secure Point Assignment
Added access to ESign Pre-Save Event Optional (Esign)	Secure Point Assignment
Added access to ESign Quick Check Event Optional (Esign)	Secure Point Assignment
Added access to ESign Quick Methods Optional (Esign)	Secure Point Assignment

Added access to Factor Scale Toolbar Button (Toolbar)	Secure Point Assignment
Added access to Force Autosave Default Path (Autosave)	Secure Point Assignment
Added access to Force Data Save Default Path (Administration)	Secure Point Assignment
Added access to Force Disable QSlope Alerts (Method)	Secure Point Assignment
Added access to Force Method Save Default Path (Administration)	Secure Point Assignment
Added access to Inactivity Timer Enabled (Security)	Secure Point Assignment
Added access to Incremental Autosave Enabled (Autosave)	Secure Point Assignment
Added access to Manual eSignature Toolbar Button (Toolbar)	Secure Point Assignment
Added access to Manual Limit Override Access (Administration)	Secure Point Assignment
Added access to Manual Sidebar Button (Sidebar)	Secure Point Assignment
Added access to Method Modification Rights Enabled (Method)	Secure Point Assignment
Added access to New Run Sidebar Button (Sidebar)	Secure Point Assignment
Added access to Optimizer Coupler Access (Administration)	Secure Point Assignment
Added access to Perimeter Authentication Enabled (Security)	Secure Point Assignment
Added access to Plugins Enabled (Toolbar)	Secure Point Assignment
Added access to Post Manual ESign Save Required (Esign)	Secure Point Assignment
Added access to Prevent Autosave to Local Hard Drive (Autosave)	Secure Point Assignment
Added access to QSlope Report Options Enabled (Report)	Secure Point Assignment
Added access to Quick Check Administrator Access (Administration)	Secure Point Assignment
Added access to Quick Check Toolbar Button (Toolbar)	Secure Point Assignment
Added access to Quick Methods Enabled (Method)	Secure Point Assignment
Added access to Quick Slope Sidebar Button (Sidebar)	Secure Point Assignment
Added access to QVCA Allow Default Path Subfolders (Administration)	Secure Point Assignment
Added access to QVCA Autosave Optional (Autosave)	Secure Point Assignment
Added access to QVCA ESign Enabled (ESign)	Secure Point Assignment

Added access to QVCA Force Autosave Default Path (Autosave)	Secure Point Assignment
Added access to QVCA Force Data Save Default Path (Administration)	Secure Point Assignment
Added access to QVCA Force Method Save Default Path (Administration)	Secure Point Assignment
Added access to QVCA Incremental Autosave Enabled (Autosave)	Secure Point Assignment
Added access to QVCA Perimeter Authentication Enabled (Security)	Secure Point Assignment
Added access to QVCA Post Manual ESign Save Required (Esign)	Secure Point Assignment
Added access to QVCA Prevent Autosave to Local Hard Drive (Autosave)	Secure Point Assignment
Added access to QVCA Report Modification Rights Enabled (Report)	Secure Point Assignment
Added access to QVCA Software Access (Application)	Secure Point Assignment
Added access to Report Modification Rights Enabled (Report)	Secure Point Assignment
Added access to Report Sidebar Button (Sidebar)	Secure Point Assignment
Added access to Save Data Sidebar Button (Sidebar)	Secure Point Assignment
Added access to Section Sidebar Button (Sidebar)	Secure Point Assignment
Added access to SecureVPE Access (Application)	Secure Point Assignment
Added access to Set Zero Allowed (Administration)	Secure Point Assignment
Added access to Set Zero Wizard Access (Administration)	Secure Point Assignment
Added access to Slope Tool Toolbar Button (Toolbar)	Secure Point Assignment
Added access to SoloVPE Administration Access (Application)	Secure Point Assignment
Added access to SoloVPE Software Access (Application)	Secure Point Assignment
Added access to Volume Calculator Toolbar Button (Toolbar)	Secure Point Assignment
Added access to Quick Survey Sidebar Button (Sidebar)	Secure Point Assignment
Added access to Admin Override Rights (Security)	Secure Point Assignment
Added user	User Added
Configured the QSlope Report Title for a specific User	Personalization
Set the Default File Path for a specific User	Personalization
Enabling SecureVPE	SecureVPE Enabled

Remove access to QVCA Prevent Autosave to Local Hard Drive (Autosave)	Secure Point Assignment
Removed access to Esignatures Enabled (Esign)	Secure Point Assignment
Removed access to Home Sidebar Button (Sidebar)	Secure Point Assignment
Removed access at QVCA Method Modification (Method)	Secure Point Assignment
Removed access to Coupler Check Access (Administration)	Secure Point Assignment
Removed access to Admin Sidebar Button (Sidebar)	Secure Point Assignment
Removed access to Advanced Settings Access Enabled (Method)	Secure Point Assignment
Removed access to Allow Default Path Subfolders (Administration)	Secure Point Assignment
Removed access to Analyzer Sidebar Button (Sidebar)	Secure Point Assignment
Removed access to Arrange Graphs - HB (Toolbar)	Secure Point Assignment
Removed access to Arrange Graphs - HT (Toolbar)	Secure Point Assignment
Removed access to Arrange Graphs - VL (Toolbar)	Secure Point Assignment
Removed access to Arrange Graphs - VR (Toolbar)	Secure Point Assignment
Removed access to Autosave Optional (Autosave)	Secure Point Assignment
Removed access to Autosave Optional (Autosave)	Secure Point Assignment
Removed access to Clear Rectangles Toolbar Button (Toolbar)	Secure Point Assignment
Removed access to DAQ View Enabled (Method)	Secure Point Assignment
Removed access to DAQ View Optional (Method)	Secure Point Assignment
Removed access to EC Edits Allowed (Administration)	Secure Point Assignment
Removed access to EC Library Sidebar button (Sidebar)	Secure Point Assignment
Removed access to Esign EC Events Optional (Esign)	Secure Point Assignment
Removed access to ESign Override Rights Enabled (Esign)	Secure Point Assignment
Removed access to ESign Pre-Save Event Optional (Esign)	Secure Point Assignment
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Removed access to ESign Quick Methods Optional (Esign)	Secure Point Assignment
Removed access to Factor Scale Toolbar Button (Toolbar)	Secure Point Assignment
Removed access to Force Autosave Default Path (Autosave)	Secure Point Assignment
Removed access to Force Autosave Default Path (Autosave)	Secure Point Assignment

Removed access to Force Data Save Default Path (Administration)	Secure Point Assignment
Removed access to Force Disable QSlope Alerts (Method)	Secure Point Assignment
Removed access to Force Method Save Default Path (Administration)	Secure Point Assignment
Removed access to Inactivity Timer Enabled (Security)	Secure Point Assignment
Removed access to Incremental Autosave Enabled (Autosave)	Secure Point Assignment
Removed access to Incremental Autosave Enabled (Autosave)	Secure Point Assignment
Removed access to Manual eSignature Toolbar Button (Toolbar)	Secure Point Assignment
Removed access to Manual Limit Override Access (Administration)	Secure Point Assignment
Removed access to Manual Sidebar Button (Sidebar)	Secure Point Assignment
Removed access to Measurement Continuation Allowed (Administration)	Secure Point Assignment
Removed access to Method Modification Rights Enabled (Method)	Secure Point Assignment
Removed access to New Run Sidebar Button (Sidebar)	Secure Point Assignment
Removed access to Optimizer Coupler Access (Administration)	Secure Point Assignment
Removed access to Perimeter Authentication Enabled (Security)	Secure Point Assignment
Removed access to Plugins Enabled (Toolbar)	Secure Point Assignment
Removed access to Post Manual ESign Save Required (Esign)	Secure Point Assignment
Removed access to Post Manual ESign Save Required (Esign)	Secure Point Assignment
Removed access to Prevent Autosave to Local Hard Drive (Autosave)	Secure Point Assignment
Removed access to Prevent Autosave to Local Hard Drive (Autosave)	Secure Point Assignment
Removed access to QSlope Report Options Enabled (Report)	Secure Point Assignment
Removed access to Quick Check Administrator Access (Administration)	Secure Point Assignment
Removed access to Quick Check Toolbar Button (Toolbar)	Secure Point Assignment
Removed access to Quick Methods Enabled (Method)	Secure Point Assignment

Removed access to Quick Slope Sidebar Button (Sidebar)	Secure Point Assignment
Removed access to QVCA Allow Default Path Subfolders (Administration)	Secure Point Assignment
Removed access to QVCA Autosave Optional (Autosave)	Secure Point Assignment
Removed access to QVCA ESign Enabled (ESign)	Secure Point Assignment
Removed access to QVCA Force Autosave Default Path (Autosave)	Secure Point Assignment
Removed access to QVCA Force Data Save Default Path (Administration)	Secure Point Assignment
Removed access to QVCA Force Method Save Default Path (Administration)	Secure Point Assignment
Removed access to QVCA Incremental Autosave Enabled (Autosave)	Secure Point Assignment
Removed access to QVCA Perimeter Authentication Enabled (Security)	Secure Point Assignment
Removed access to QVCA Post Manual ESign Save Required (Esign)	Secure Point Assignment
Removed access to QVCA Prevent Autosave to Local Hard Drive (Autosave)	Secure Point Assignment
Removed access to QVCA Report Modification Rights Enabled (Report)	Secure Point Assignment
Removed access to QVCA Software Access (Application)	Secure Point Assignment
Removed access to Report Modification Rights Enabled (Report)	Secure Point Assignment
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Removed access to Set Zero Wizard Access (Administration)	Secure Point Assignment
Removed access to Slope Tool Toolbar Button (Toolbar)	Secure Point Assignment
Removed access to SoloVPE Administration Access (Application)	Secure Point Assignment
Removed access to SoloVPE Software Access (Application)	Secure Point Assignment

Removed access to Volume Calculator Toolbar Button (Toolbar)	Secure Point Assignment
Removed access to Quick Survey Sidebar Button (Sidebar)	Secure Point Assignment
Removed access to Admin Override Rights (Security)	Secure Point Assignment
Removed the QSlope Report Title for a specific User	Personalization
Removed the Default File Path for a specific User	Personalization
Removed group	Group Removed
Removed user from group	User Removed

The eSignatures log captures each time an eSignature is performed by a user within the SoloVPE and QuickVCA software.

eSignatures	
Class	**Module**
CouplerCheck	QCheck
QuickCheck	QCheck
ESignData	QuickVCA
MANUAL	QuickVCA
ESignMethod	QuickVCA
ESignReport	Report
ESignData	SaveData
ESignData	NewRun
ESignAnalysis	Analyze
ESignData	QSlope
MANUAL	eSign-Manual
SetMethod	QSlope

Document Info:

Revision History			
Rev	**Date**	**Changes**	**Initials**
00	2019-01-24	Initial Release	JM
01	2019-09-23	Update for software version 3.1.316.0	JM
02	2019-12-18	Address updated	JM

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