

Event Log Crash Browser

by

Software Verify

Copyright © 2017-2025 Software Verify Limited



Event Log Crash Browser

Easily find crash information in the Windows Event Log.

by Software Verify Limited

Welcome to the Event Log Crash Browser software tool.

Event Log Crash Browser is a software tool that allows you to easily identify crashes in the Windows Event Log and then launch related tools to turn the crash information into symbols, filenames and line numbers you can use for debugging.

We hope you will find this document useful.

Event Log Crash Browser Help

Copyright © 2020-2025 Software Verify Limited

All rights reserved. No parts of this work may be reproduced in any form or by any means - graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems - without the written permission of the publisher.

Products that are referred to in this document may be either trademarks and/or registered trademarks of the respective owners. The publisher and the author make no claim to these trademarks.

While every precaution has been taken in the preparation of this document, the publisher and the author assume no responsibility for errors or omissions, or for damages resulting from the use of information contained in this document or from the use of programs and source code that may accompany it. In no event shall the publisher and the author be liable for any loss of profit or any other commercial damage caused or alleged to have been caused directly or indirectly by this document.

Printed: June 2025 in United Kingdom.

Table of Contents

L

	Foreword	1
Part I	How to get Event Log Crash Browser	2
Part II	What does Event Log Crash Browser do?	4
Part III	Menu	6
1	File	7
2	Settings	7
3	Software Updates	8
4	Help	11
Part IV	The user interface	13
Part V	SettingsDialog	19
1	Events	20
2	Behaviour	21
Part VI	Command Line	24
Part VII	Crash Logs	26
	Index	0

Foreword	1



3

1 How to get Event Log Crash Browser

Event Log Crash Browser is free for commercial use. Event Log Crash Browser can be downloaded for Software Verify's website at https://www.softwareverify.com/product/event-log-crash-browser/.

This help manual is available in Compiled HTML Help (Windows Help files), PDF, and online.

Windows Helphttps://www.softwareverify.com/documentation/chm/eventLogCrashBrowser.chmPDFhttps://www.softwareverify.com/documentation/pdfs/eventLogCrashBrowser.pdfOnlinehttps://www.softwareverify.com/documentation/html/eventLogCrashBrowser/index.html

Whilst Event Log Crash Browser is free for commercial use, Event Log Crash Browser is copyrighted software and is not in the public domain.

You are free to use the software at your own risk.

You are not allowed to distribute the software in any form, or to sell the software, or to host the software on a website.

Contact Software Verify at:

Software Verify Limited Suffolk Business Park Eldo House Kempson Way Bury Saint Edmunds IP32 7AR United Kingdom

 email
 sales@softwareverify.com

 web
 https://www.softwareverify.com

 blog
 https://www.softwareverify.com/blog

 twitter
 http://twitter.com/softwareverify

Visit our blog to read our articles on debugging techniques and tools. Follow us on twitter to keep track of the latest software tools and updates.



5

2 What does Event Log Crash Browser do?

Event Log Crash Browser allows you to easily identify crash information in the Windows Event Log.

Once the crash information has been identified you can launch various tools to convert the crash address into symbols, filenames and line numbers that you can use for debugging.



3 Menu

The main menu contains four menus, File, Settings, Software Updates and Help.

[!!] Event Log Crash Browser File Settings Software Updates Help

3.1 File

The File menu controls the scanning and display of event log crash information.



File menu > Scan Event Log > scans the event log for crashes. Any crashes found are shown on the user interface.

File menu > Stop scanning > stops scanning the event log for crashes.

File menu > Clear scan results > the user interface contents are reset to show no crashes.

File menu > Load crash log... > crash data is loaded from a log file.

File menu > Save crash log... > crash data is saved to a log file.

File menu > Exit > closes Event Log Crash Browser.

3.2 Settings

The settings menu provides access to the settings.

Edit Settings...

Settings menu **> Edit Settings... >** displays the settings dialog.

3.3 Software Updates

8

The Software Updates menu controls how often software updates are downloaded.

If you've been notified of a new software release to Event Log Crash Browser or just want to see if there's a new version, this feature makes it easy to update.

Check for software updates
Configure software updates
Set software update directory

Software Updates menu **> Check for software updates >** checks for updates and shows the software update dialog if any exist

An internet connection is needed to be able to make contact with our servers.

Before updating the software, close the help manual, and end any active session by closing target programs.

If no updates are available, you'll just see this message:

Check for	software updates.	×
1	No new updates are available for Event Log Crash Browser	
	ОК	

Software Update dialog

If a software update is available for Event Log Crash Browser you'll see the software update dialog.

Software update download confirmation		×			
A software update is available for Event Log Cra	A software update is available for Event Log Crash Browser.				
Do you wish to install Event Log Crash Browser V	1.53?				
Yes, Download and Install	Don't download, ask me later	Skip this version, don't tell me about it again			
Software update Software update options					

• Download and install > downloads the update, showing progress



Once the update has downloaded, Event Log Crash Browser will close, run the installer, and restart.

You can stop the download at any time, if necessary.

- Don't download... > Doesn't download, but you'll be prompted for it again next time you start Event Log Crash Browser
- Skip this version... > Doesn't download the update and doesn't bother you again until there's an
 even newer update
- Software update options... > edit the software update schedule

Problems downloading or installing?

If for whatever reason, automatic download and installation fails to complete:

• Download the latest installer manually from the software verify website.

Make some checks for possible scenarios where files may be locked by Event Log Crash Browser as follows:

- Ensure Event Log Crash Browser and its help manual is also closed
- Ensure any error dialogs from the previous installation are closed

You should now be ready to run the new version.

Software update schedule

Event Log Crash Browser can automatically check to see if a new version of Event Log Crash Browser is available for downloading.

Software Updates menu **> Configure software updates >** shows the software update schedule dialog

The update options are:

- never check for updates
- check daily (the default)

- check weekly
- check monthly

The most recent check for updates is shown at the bottom.

Software update schedule	?	×
OutputDebugStringChecker can check for software updates on a r	egular ba	sis.
C Never check for updates		
C Check for updates every day		
Check for updates once a week		
C Check for updates once a month		
Most recent check for updates was performed on 2022-07-23		
ОК	Can	icel

Software update directory

It's important to be able to specify where software updates are downloaded to because of potential security risks that may arise from allowing the TMP directory to be executable. For example, to counteract security threats it's possible that account ownership permissions or antivirus software blocks program execution directly from the TMP directory.

The TMP directory is the default location but if for whatever reason you're not comfortable with that, you can specify your preferred download directory. This allows you to set permissions for TMP to deny execute privileges if you wish.

Software Updates menu **> Set software update directory >** shows the Software update download directory dialog

Software update download directory	?	×
Software updates will be downloaded to the location specified below:		
C:\Users\stephen\AppData\Local\Temp	Brows	e
	Res	et
ОК	Can	cel

An invalid directory will show the path in red and will not be accepted until a valid folder is entered.

Example reasons for invalid directories include:

- the directory doesn't exist
- the directory doesn't have write privilege (update can't be downloaded)

• the directory doesn't have execute privilege (downloaded update can't be run)

When modifying the download directory, you should ensure the directory will continue to be valid. Updates may no longer occur if the download location is later invalidated.

• **Reset >** reverts the download location to the user's TMP directory

The default location is c:\users\[username]\AppData\Local\Temp

3.4 Help

The Help menu controls displaying this help document and displaying information about Event Log Crash Browser.

About Event Log Crash Browser
Readme and Version History
Help Topics
Help PDF
Help on softwareverify.com
Blog
Library
Contact customer support
How do I?

Help menu **> About Event Log Crash Browser... >** displays information about Event Log Crash Browser.

Help menu > Readme and Version History... > displays the readme and version history.

Help menu > Help Topics... > displays this help file.

Help menu **> Help PDF... >** displays this help file in PDF format.

Help menu **> Help** on **softwareverify.com**... **>** display the Software Verify documentation web page where you can view online documentation or download compiled HTML Help and PDF help documents.

Help menu **> Blog... >** display the Software Verify blog.

Help menu **> Library... >** display the Software Verify library - our best blog articles grouped by related topics.

Help menu **> Contact customer support... >** displays the options for contacting customer support.



Click a link to contact customer support.

Help menu **> How do I?... >** displays the options for asking us how to do a particular task.





4 The user interface

The Event Log Crash Browser user interface is shown below.

PID EXE (1859)	Date	Code	Exception / HRESULT	Offset Arc	DLL
10832 devenv.exe	2025-06-12:13:15:04	Oxc0000005	STATUS_ACCESS_VIOLATION	0x00089365 i386	msvcrt.dll
18412 CompatTelRunner.exe	2025-06-12:08:29:10	Ox c0000005	STATUS_ACCESS_VIOLATION	0x0008e5d8 (386	combase.dll
4564 miniDumpBrowser_x64.exe	2025-06-09:17:58:41	0xc000041d	STATUS_FATAL_USER_CALLBACK_EXCEPTION	0x0005d498 x64	miniDumpBrowser_x64.exe
4564 miniDumpBrowser_x64.exe	2025-06-09:17:58:40	Oxc0000005	STATUS_ACCESS_VIOLATION	0x0005d498 x64	miniDumpBrowser_x64.exe
4956 miniDumpBrowser_x64.exe	2025-06-09:17:58:20	0xc000041d	STATUS_FATAL_USER_CALLBACK_EXCEPTION	0x0005d498 x64	miniDumpBrowser_x64.exe
4956 miniDumpBrowser_x64.exe	2025-06-09:17:58:20	Oxc0000005	STATUS_ACCESS_VIOLATION	0x0005d498 x64	miniDumpBrowser_x64.exe
16300 miniDumpBrowser_x64.exe	2025-06-09.16:34:49	0xc0000005	STATUS_ACCESS_VIOLATION	0+0000000	
15040 miniDumpManager.exe	2025-06-05:18:35:35	0x40000015	STATUS_FATAL_APP_EXT	0x0008d6fd i386	MSVCR100.dll
11108 TestSetWindowRgn.exe	2025-06-05:10:13:39	Ox c0000005	STATUS_ACCESS_VIOLATION	0x00052d5e i385	ntdiLdi
13572 TestSetWindowRgn.exe	2025-06-05:10:06:02	0xc000041d	STATUS_FATAL_USER_CALLBACK_EXCEPTION	0x0000000	
13572 TestSetWindowRgn.exe	2025-06-05:10:06:01	Dec0000005	STATUS_ACCESS_VIOLATION	0+00000000	
6084 TestSetWindowRgn.exe	2025-06-05:09:55:28	0xc000041d	STATUS_FATAL_USER_CALLBACK_EXCEPTION	0x0000000	
6084 TestSetWindowRgn.exe	2025-06-05:09:55:28	0xc0000005	STATUS_ACCESS_VIOLATION	0x0000000	
4536 devenv.exe	2025-06-03:07:55:43	0xc0000005	STATUS_ACCESS_VIOLATION	0x00015585 i386	MSVCR80.dll
7484 VP Beta - Release-VP-Main Branch-64.exe	2025-05-29:10:40:51	0xc0000409	STATUS_STACK_BUFFER_OVERRUN	0x00017ad2 x64	svlSupportCRT_x64.dll
7448 devenv.exe	2025-05-29:08:26:11	Grc0000005	STATUS_ACCESS_VIOLATION	0x00089365 i386	msvcrt.dll
5276 miniDumpManager.exe	2025-05-28/21/34/40	0xc0000005	STATUS_ACCESS_VIOLATION	0x0003b41f i386	miniDumpManager.exe
5396 performanceValidator_x64.exe	2025-05-28:18:47:18	Oxc0150010	STATUS_SXS_INVALID_DEACTIVATION	0x000ar266 x386	ntdiLdi
5396 performance/alidator_x64.exe	2025-05-28:18:47:18	0x80000003	STATUS_BREAKPOINT	0x0011a5e2 i386	MSVCR100D.dll
13820 performanceValidator_x64.exe	2025-05-28:11:23:08	0xc0000374	STATUS_HEAP_CORRUPTION	0x000H3c9 i386	ntdlLdll
12184 VP Beta - Release-VP-Main Branch-64.exe	2025-05-28:11:02:04	Occ0000005	STATUS_ACCESS_VIOLATION	0x009fc7d7 x64	VP Beta - Release-VP-Main Branch-64.exe
2560 VP Beta - Release-VP-Main Branch-64.exe	2025-05-28 10:13:52	0xc0000005	STATUS_ACCESS_VIOLATION	0x009fc7d7 x64	VP Beta - Release VP-Main Branch-64.exe
6952 VP Beta - Release-VP-Main Branch-64.exe	2025-05-28:10:05:51	Oxc0000005	STATUS_ACCESS_VIOLATION	0x009fc7d7 x64	VP Beta - Release-VP-Main Branch-64.exe
4312 VP Beta - Release-VP-Main Branch-64.exe	2025-05-28/09:53:11	0xc000001d	STATUS_ILLEGAL_INSTRUCTION	0x00a599d7 x64	VP Beta - Release-VP-Main Branch-64.exe
10836 VP Beta - Release-VP-Main Branch-64.exe	2025-05-28:09:31:03	0xc000001d	STATUS_ILLEGAL_INSTRUCTION	0x00a599d7 x64	VP Beta - Release-VP-Main Branch-64.exe
13716 miniDumpManager.exe	2025-05-27:18:26:25	0xc0000005	STATUS_ACCESS_VIOLATION	0x00036456 6386	miniDumpManager.exe
12448 miniDumpManager.exe	2025-05-27:18:25:15	Oxc0000005	STATUS_ACCESS_VIOLATION	0x0003b45f i386	miniDumpManager.exe
1772 miniDumpManager.exe	2025-05-23:17:21:32	Oxc0000005	STATUS_ACCESS_VIOLATION	0x0003b45f i386	miniDumpManager.exe
14260 helloworld.exe	2025-05-21:15:03:46	Oxc0000005	STATUS_ACCESS_VIOLATION	0x00000003 i386	CG32.DU
6788 helloworld.exe	2025-05-21:15:03:20	Oxc0000005	STATUS_ACCESS_VIOLATION	0x00000003 i386	CG32.DU
964 test_anyshape.exe	2025-05-20:17:06:34	Oxc0000417	STATUS_INVALID_CRUNTIME_PARAMETER	0x000cf8e2 i386	MSVCR90D.dll
616 helloworld.exe	2025-05-20.17.03.41	Oxc0000005	STATUS_ACCESS_VIOLATION	0x00000003 (385	CG32.DLL
16984 helloworld.exe	2025-05-20:17:03:15	Orc0000005	STATUS_ACCESS_VIOLATION	0x00000003 i386	CG32.DLL
12468 helloworld.exe	2025-05-19:16:18:36	Ox c0000005	STATUS_ACCESS_VIOLATION	0x00000003 i386	CG32.DLL
248 helloworld.exe	2025-05-19:16:18:10	Oxc0000005	STATUS_ACCESS_VIOLATION	0x00000003 i386	CG32.DLL
8320 helloworld.exe	2025-05-19:15:56:13	Ox c0000005	STATUS_ACCESS_VIOLATION	0x00000003 (386	CGI2DU
7260 helloworld.exe	2025-05-19:15:55:48	Oxc0000005	STATUS_ACCESS_VIOLATION	0x00000003 i386	CG32.DLL
12592 helloworld.exe	2025-05-19:15:52-28	Oxc0000005	STATUS_ACCESS_VIOLATION	0x00000003 i386	CG32.DLL
5228 helloworld.exe	2025-05-19:15:52:04	0xc0000005	STATUS_ACCESS_VIOLATION	0x00000003 386	CG32.DU

The display shows one event log crash per line. The most recent event is shown first.

Each line displays the process id, the crash executable, the crash exception code, a text version of the exception code, the crash offset and the crash DLL (the DLL that the crash occurred inside of) and the name of the company that build the DLL. The DLL field will be empty if the crash does not occur inside a DLL. The processor architecture is displayed if the DLL can be read (it may not be on disk any more). The company name will only be displayed if there is a DLL name specified with a full path (some DLL names are specified without a path).

The display can be sorted by each column. Click the column header to choose which column to sort. Click the same column header again to reverse the sorting direction.

The display is colour coded according to the type of exception. This colour coding can be enabled or disable from the settings.

EXE and DLL paths are shown with full paths by default, but path information can be hidden if you wish - use the show full path checkbox.

Filters

Three filters are provided: Exception, EXE and DLL.

Exception

Exception:	Any Exception	~	

Any Exception allows any event to be displayed, whereas other selections will only display an event that has that exception type.

EXE

DLL:	Any DLL	~
------	---------	---

Any EXE allows any event to be displayed, whereas other selections will only display an event that has that executable.

DLL

DLL:	Any DLL	~
DEL.	Any DEL	*

Any DLL allows any event to be displayed, whereas other selections will only display an event that has that crash DLL.

The filters combine with each other, so that you can go from displaying all events to displaying only a specific exception that happens in a specific DLL when used as part of a specific EXE.

Context Menu

There is a context menu which you can access by right clicking on any crash event. This provides options for various Software Verify debugging tools that can turn the crash offset into a symbol, filename and line number.

Lookup crash location	•
Properties	
Open folder location	
Copy to clipboard	

Lookup crash location



• DbgHelp Browser...

DbgHelp Browser is launched to open the PDB symbols associated with the crash DLL. The symbol at the crash offset is then highlighted.

• DWARF Browser...

DWARF Browser is launched to open the DWARF symbols in the crash DLL. The symbol at the crash offset is then highlighted.

• TDS Browser...

TDS Browser is launched to open the TDS symbols associated with the crash DLL. The symbol at the crash offset is then highlighted.

• MAP File Browser...

Map File Browser is launched to open the MAP file associated with the crash DLL. The symbol at the crash offset is then highlighted.

If a tool is chosen that is not installed a prompt will be displayed to download the tool.

• Properties...

Windows explorer is used to open a properties dialog for the crash DLL.

ieneral r	Compatibility	Security	Details	Previous Versions	
	compationity	cocanty	Dotano		
	testDe	eliberateCra	ash.exe		
Type of fil	e: Applic	ation (.exe))		
Descriptio	n: testDe	liberateCra	sh		
Location:	E:\om	\c\testApp	s∖testDeli	berateCrash\x64\De	bug
Size:	266 K	B (272,384	bytes)		
Size on di	sk: 268 Kl	B (274,432	bytes)		
Created:	24 Feb	oruary 2020), 15:11:0	1	
Modified:	24 Feb	oruary 2020), 15:11:0	2	
Accessed	: 24 Feb	oruary 2020), 15:11:0	1	
Attributes	Re	ad-only	Hidder	Advance	d

• Open folder location...

Windows explorer is used to open a folder view at the location of the crash DLL.

• Copy to clipboard

Crash information is copied to the clipboard in an XML format that can be used with DbgHelp Browser, TDS Browser and Map File Browser.

The format is similar to the event log XML format for Windows Error Reporting "APPCRASH", but with some of the fields left blank because we don't use them.

For example:

```
<Event>
 <System>
   <Provider Name="Windows Error Reporting">
  </System>
 <EventData>
    <Data></Data>
   <Data></Data>
   <Data>APPCRASH</Data>
   <Data></Data>
   <Data></Data>
   <Data>E:\om\c\testApps\testDeliberateCrash\x64\Debug\testDeliberateCrash.exe</Data>
    <Data></Data>
    <Data></Data>
    <Data>E:\om\c\testApps\testDeliberateCrash\x64\Debug\testDeliberateCrash.exe</Data>
    <Data></Data>
    <Data></Data>
    <Data>0xc0000005</Data>
    <Data>0x00001e6c</Data>
    <Data></Data>
    <Data></Data>
   <Data>STATUS_ACCESS_VIOLATION</Data>
   <Data>OK</Data>
    <Data>TODO: <Company name></Data>
  </EventData>
</Event>
```



5 SettingsDialog

The Settings dialog allows you to change what event types are searched for and how those events are displayed.

Settings		?	×
Settings	Events		
Behaviour	The type of events you would like to scan:		
	Application Error		
	Windows Error Reporting		
	.Net Profiler Errors		
	Reset All Reset Help (F1) OK	Can	cel

Reset

If you make a mess of the settings and wish to go back to the defaults, you can always Reset the settings.

5.1 Events

The Events settings allows you to change what event types are searched for.

Settings		?	×
Settings 	Events The type of events you would like to scan: Application Error Windows Error Reporting Application Popup Net Profiler Errors	?	×
	Reset All Reset Help (F1) OK	Can	cel

Event types

Four types of events can be searched for in the event log.

- Application Error
- Windows Error Reporting
- Application Popup
- .Net Profiler Errors

Reset

If you make a mess of the settings and wish to go back to the defaults, you can always Reset the settings.

5.2 Behaviour

The Behaviour settings allows you to change how events are displayed.

Settings		?	×
Settings Events Behaviour	Behaviour Use colour to highlight different events Auto dear the display for each new event log scan Scan event log at application start Remember filters between sessions	?	×
	Reset All Reset Help (F1) OK	Can	cel

Behaviour

Colour

Colour is used to highlight different event types. By default this is enabled. If you don't want this you can turn it off.

Auto Clear

Typically we clear the display when a new event log scan is started, but if you're performing multiple searches with different event criteria you may wish to keep the results from previous scans by not enabled auto clearing of the display.

Automatic Scan

Scans are normally manually initiated, but if you always want to scan automatically you can do that. This is useful if you're using Event Log Crash Browser to quickly see what the most recent crash value is.

Filter Persistence

If you're interested in a particular crash that is repeating you may wish to set up a specific filter configuration to go with the automatic scan.

Reset

If you make a mess of the settings and wish to go back to the defaults, you can always Reset the settings.

SettingsDialog	23



6 Command Line

The command line support in Event Log Crash Browser is very simple.

/export

The **/export** command takes one argument, a filename.

/export e:\crash.elcbl

Example command line

eventLogCrashBrowser.exe /export e:\crash.elcbl

The above command line will cause the list of events normally displayed on the user interface to be written to the file <code>e:\crash.elcbl</code>

This file could then be inspected at a later date, on the same computer or a different computer.



7 Crash Logs

Event log crash information can be saved to a log file which can then be inspected at a later date on the same computer or a different computer. The Save crash log and Load crash log menu items provide support for this.

A scenario we imagine is using Event Log Crash Browser on a customer machine to save all the events to a crash log which is sent to customer support where the crash log is inspected for information related to the application under development.

There is also command line support for this style of usage.

