



DELPHICON 2020

THE OFFICIAL ONLINE CONFERENCE ALL ABOUT EMBARCADERO DELPHI

NOVEMBER 17-19, 2020

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Real-world CodeSite Logging Techniques



A talk by Bob Swart (aka Dr.Bob – www.drbob42.com)

Delphi Developer

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November 18, 2020, 16:00 CET

CodeSite by Raize Software

CodeSite Express (free, install using GetIt Package Manager)

CodeSite Studio (available from www.raize.com)

Live Logging

File Logging

Local Logging

Remote Logging (CodeSite Studio)

Logging invisible to endusers

Tools for analysis of CodeSite logfiles

CodeSite tools

CSDispatcher.exe
CSController.exe

CSFileViewer.exe
CSLiveViewer.exe

CSDestStringBuilder.exe
CSFileExporter.exe
CSFileSplitter.exe
CSMergeFiles.exe

CodeSite Dispatcher

- **Free Distributable**

- CS5_Tools.exe

- **Install as a service**

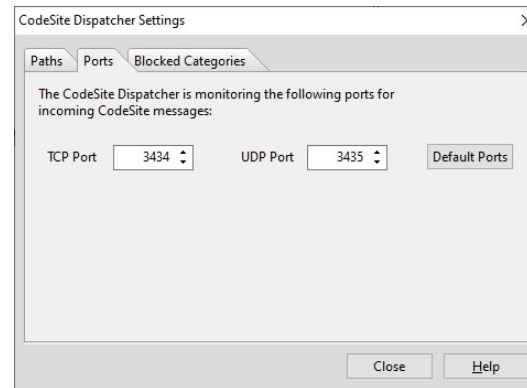
`CSDispatcher.exe /install`

- **ConnectUsingTcp**

- when working with services (which include ISAPI DLLs)
- default ports 3434 and 3435

- Not required at client machine when using Remote Logging

`ConnectUsingTcp(ip-address);`



CodeSite Message Types

- **CodeSite.Send**

- csmYellow, csmGreen, csmOrange, csmBlue, csmRed, ...
- csmInfo, csmWarning, csmError
- csmDataSet
in unit CodeSiteDBTools

	A	B
1	csmGreen	SQL
2	csmYellow	Results
3	csmBlue	SOAP or REST call
4	csmOrange	XML or JSON
5	csmRed	ResponseCode
6	csmIndigo	New Task
7	csmViolet	
8		
9	csmInfo	
10	csmWarning	
11	csmError	
12	csmException	



CodeSite ScratchPad

- CodeSite Studio
- Only available for LiveViewer
 - not stored in logfile, only shown in special area of viewer
- Any string
 - display number of users, memory usage



CodeSite Destinations

- Viewer

Enabled

- LogFile

FilePath, FileName, MaxSize, MaxParts

LogByDate, LogByDateFormat, Compressed (Studio only)

DestinationStringBuilder



Multiple CodeSite Loggers

- Additional Logging
CodeSiteEx for Errors/Exceptions only
- Separate TCodeSiteDestination
Errors.csl
LiveViewer (for instant “alarm”, including ScrathPad)



Enabling CodeSite Loggers

- Full logging off by default
CodeSiteEx for Errors/Exceptions only
- Reproducible Error? Enable CodeSite!
Step by step (Enter/ExitMethod)
Optionally send comments in message



CodeSite OnSendMsg

- Intercept and handle messages

Available on CodeSite Studio only

```
TCodeSiteSendMsgEvent = procedure ( Sender: TObject;  
    MsgData: TCodeSiteMsgData; var Handled: Boolean ) of object;
```

Take any action

Count number of errors / exceptions



CodeSite Logging Techniques

- CodeSite Dispatcher
- + Remote Logging
- Message Types
- + ScratchPad
- CodeSite Destinations
- Multiple CodeSite Loggers
- Enabling/Disabling CodeSite Loggers
- + CodeSite OnSendMsg

+ = requires CodeSite Studio

Thank You!

Questions?



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