



How can I justify the investment in VISUAL Debugger?
What problems is it going to solve for me?

VISUAL Debugger for Windows

...about the Company

Cardinal Health, Inc. (NYSE:CAH) is a leading provider of products and services supporting the health-care industry. The company, which is headquartered in Dublin, Ohio, employs more than 49,000 people on five continents and produces annual revenues of more than \$40 billion.

This document reproduces correspondence between a VISUAL Debugger for Windows customer, Peter Hubby of Cardinal Health, and an IT Manager interested in investing in a VISUAL Debugger for Windows license for their iSeries system, John Gulas of Dancik-On-Disk International.

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1. Has the implementation of VISUAL Debugger been beneficial in debugging your applications?

The biggest benefit has been time. Literally within minutes, we have found the source of production problems. Whether it be data or program related, VISUAL Debugger (VDW) has given us the ability to pinpoint the problem quickly and efficiently.

2. What languages do you debug with it?

Cardinal Distribution uses primarily RPG and CL. We have many applications however that are ILE with bound objects. VDW can debug all these different programs together. This makes it very easy when a CLP calls an RPGLE program that has bound calls to other service modules or bound modules.

3. Are you getting the results you expected when you made the decision to implement the product? Do you have any metrics that tracked increased Quality Control?

Yes. VDW has surpassed our pre implementation expectations.

4. Have there been any support issues with the fact that VISUAL Debugger is a product from another software company. Does Softlanding handle your support?

No. With the few problems we have had, we called Softlanding directly. They have been prompt and very helpful. We have had no problem with them.

5. What feedback have you received from your programmers; do they find the tool useful or cumbersome to use?

Most of the programmers have found it to be very helpful. Its ability to handle batch programs so effortlessly is one of the best things I like about it.

6. Any additional positive comments or tips about VISUAL Debugger.

VDW can debug programs whose source is on another system. We have 4 production AS400's and a development AS400. All our source is on our development box with only the program objects on the production systems. When we have a production issue we used to have to FTP the source over to the production box, re-compile and debug. Now we start up VDW, tell it what system/lib/file/member to use for debug, and that's it. It is all driven with friendly and what I consider easy dialog boxes.

I found when debugging an interactive job, bringing up a separate Client Access session to use only as the job for processing the debug session improves the performance of the debugging. I don't do anything in the Client Access session. I let VDW use it exclusively. If I need to run a command for the debug session (i.e. look at my QTEMP library) I enter the command on the command line in VBD, NOT in the Client Access session. The results are displayed in the Client Access session, so I do need to switch to it to look at the results of the command, but all in all most commands are best entered through VDW when debugging an interactive program.

Dancik-On-Disk International, Ltd. was formed in 1981 as a software design and consulting company to provide distribution applications to various industries.

For more information about VISUAL Debugger for Windows or other Tango/04 software products, please contact us at international@tango04.net or visit www.tango04.com