Axiom helps get users' work done in less time.

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tions in *MicroStation Productivity Toolkit,* but the MicroStation and CAD experience accumulated over the past 20 years by Axiom personnel is available to *Toolkit* owners regarding *any* aspect of their MicroStation projects. Axiom services include, but are not limited to, phone consultations, on-line demonstrations, on-line training and unlimited e-mail or phone support.

One might reasonably expect to have to pay extra for training or to pay hefty wages for professional consultants, but Axiom provides all of these valuable services to *Toolkit* owners with active maintenance, at no additional charge!

Axiom's unique position

Bentley innovations, such as MicroStation V8 and the V8 versions of Bentley discipline-specific applications, offer broad benefits to the CAD community. Axiom is in a position to uniquely service the MicroStation community — Axiom does not have the burden of implementing and supporting MicroStation itself nor Bentley's discipline-specific add-ons, so Axiom can move fast.

Axiom Product Manager Steve Palmer explains, "One of our clients moved to V8 not too long ago. He had various urgent project requirements that his MVAR and Bentley couldn't address until a future release of MicroStation, which was months away. He had to solve the problem *now.* We implemented the needed functionality in a macro over a weekend. This is business as usual for Axiom."

It's not uncommon for MicroStation users to tell Axiom they would not be using MicroStation if Axiom tools were unavailable. Ironically, Axiom does not sell MicroStation, so has no vested interest and can therefore offer objective advice about MicroStation productivity for both MicroStation J or MicroStation V8.

Axiom's focus is to get your work done in less time so you make more profit and don't have to work all weekend or on holidays to meet a deadline.

A tradition of customized service

Axiom was developing tools for IGDS files before Bentley or MicroStation existed. These years of experience are incorporated into each *MicroStation Productivity Toolkit* application.

But quite in addition to the profit-boosting functionality in each *Toolkit* application, Axiom technical veterans also regularly write custom macros (for use with *Global File Changer*) or custom rules (for use with *SpecChecker*) for *Toolkit* owners. In fact, *Global File Changer* and *SpecChecker* were specifically design for extensibility and customization.

Don't be left out!

Call now!

For more information on *MicroStation Productivity Toolkit* contact an Axiom MicroStation Consultant today! Call +1-727-442-7774 extension 9060, e-mail 9060@axiomint.com. Learn more about the time-saving benefits of MicroStation Productivity Toolkit and cost justifications for purchase by visiting Axiom's web site www.axiomint.com. MST

Delphi keeps facility maintenance data in top shape with *FileFixer.*

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cars and trucks sold by many of the automakers around the world. We build many of the radios that are in GM cars and trucks.

Another pretty cool item we manufacture is the Passive Occupant Detection Sensor (PODS). PODS senses whether or not a person is sitting in a seat, and if so, how large the person is or if it is a child car seat. The PODS then adjusts the force at which the air bags deploys. It's pretty cool.

> "I used to use EdG to fix broken MicroStation files. It was slow and painful. FileFixer finds the problem and just fixes it."

MicroStation Today: **Don't you need to have an extremely sterile environment to manufacture high-end electronics?**

Bob: Yes. Our facility was at one time the largest of it's kind. It has 60,000 square feet of Class 100 cleanrooms, which are cleaner than hospital operating rooms. (Note: Cleanrooms are contamination-free environments where high-tech manufacturing and assembly take place. The class number refers to the maximum number of particles bigger than one-half of a micron (a micron is equal to one millionth of a meter) that would be allowed in one cubic foot of cleanroom air. A Class 100 cleanroom, for example, would not contain more than 100 particles bigger than half a micron in a cubic foot of air).

MicroStation Today: **How does MicroStation fit into all this high-end cleanliness?**

Bob: We use MicroStation to manage the equipment and furnishings in our three million square feet of office and manufacturing space. We also use MicroStation for our mechanical, electrical and communications systems, as well as to produce drawings for renovations and relocations within the facility. We then place that data back into a database, so we always know where all the systems are located.

MicroStation Today: **How do Axiom tools fit in your workflow?**

Bob: At the end of a project, before the design files go back to the database (where they keep track of changes and modifications to the files), I always run *FileFixer* and *Duplicate Element Remover* on every file. I also use *CellManager* to assist me in maintaining our cell libraries, and when reference file attachment paths change, I use *RefManager* to update them.

Sometimes we do presentations showing proposed changes to a facility. In these presentations, we block out and fill areas of the design file. To ensure elements don't get lost behind these filled elements, I use *SequenceEditor.* I also use *SpellCheckerPlus* everyday.

MicroStation Today: **Do Axiom tools save you time and money?**

Bob: Yes. Actually, Axiom tools have saved my bacon many times. Most times the problem involves getting AutoCAD files to work properly in our MicroStation environment. Other times, the problem involves spending many hours fixing several different drawings that have been manipulated by different designers. You can't tell who or what caused a problem in a file, but when a file breaks, it has to be fixed. *FileFixer* always comes to the rescue. I used to use EdG to fix broken MicroStation files. It was slow and painful, even with 80 hours of training in EdG. *FileFixer* finds the problem and just fixes it. It's a great product.

Duplicate Element Remover is a great tool as well. Imagine a new user, a fence operation left on around several thousand square feet of equipment and utilities and the copy command gone amuck… duplicate elements are created everywhere! With the old pen plotters, this mistake wipes out a pen and a piece of paper quickly. We would have to manually remove all the duplicates. Without *Duplicate Element Remover,* the task is long and slow.

MicroStation Today: **It sounds like you and Axiom tools keep your department in tip-top shape. Thank you for sharing your story with us.**

Bob: No problem. Thank you.

More about Bob Corwin

Bob enjoys playing golf and building furniture in his spare time. He is fan of NASCAR racing and has been married to "the same wonderful lady" for over 26 years. They have two children who are both in college.

Call now!

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MicroStation Tip Corner

Quick two-letter MicroStation key-ins

Although a graphical interface is great for many things, sometimes it's faster to use two-letter MicroStation key-ins to adjust settings. For example, to set the active scale to 2.0, you can simply type "as=2" in the key-in browser. MicroStation has quite an extensive list of these two-letter key-ins for setting all manner of things from the active level and color, which just about everyone is familiar with, to saving or activating views. Cut out the list below and attach it to the base of your monitor for easy reference. The list of two-letter key-ins separated by categories (do not use a space before the equal sign for these key-ins):

CUT HERE

View manipulation
OF= Turn off levels by number
ON= Turn on levels by number
RV= Rotate view(s) about center
WO= Set view origin
SV= Save view
VI= Attach saved view
DV= Delete saved view

Text and dimensioning
FT= Active font
DF= Opens font dialog box
TH= Active height
TW= Active width
TX= Active height and width
LL= Active line length
LS= Active line spacing
TB= Tab spacing for importing text
TI= Tag Increment amount
LD= Dimension level
TV= Upper and lower dimension tolerance limits

Settings
AA= Active angle
AS= Active scale
XS= Active x scale
YS= Active y scale
ZS= Active z scale
GU= Master/Grid
GR= Reference grid
KY= (Snap) Divisor
UR= (Unit Lock) Distance

Set element and pattern attributes
AP= Active pattern cell
LV= Active level
CO= Active color
PA= Active pattern angle
LC= Active line style
PD= Active pattern spacing
WT= Active line weight
PS= Active pattern scale

Precision input
XY= <x,y,z> from origin along design files axes
DI= <distance, direction> from last data or tentative point relative to view axes
DL= <Dx, Dy, Dz> from last data or tentative point in design coordinates
DX= <Dx, Dy, Dz> from last data or tentative point in view coordinates
AX= Distance from Auxiliary Coordinate System (ACS) origin
AD= Distance from last data or tentative point in ACS coordinates

Cells
AC= Set active cell and select place active cell tool with relative off
AR= Set active cell and select place active cell tool with relative on
CM= Place active cell matrix tool
PT= Active point
LT= Active terminator
TS= Terminator scale
CR= Edit cell information
CD= Delete cell from cell library
CC= Create cell

3D modeling
DP= Set the display depth from 0.0 of view's z-axis
DD= Distance to move display depth from current values
AZ= Set the active depth from 0.0 of the view's z-axis
DZ= Distance to move active depth from current value
SX= Save ACS
RX= Attach ACS
PX= Delete ACS

File management
RD= Open design file
XD= Open design file with active design's view configuration
RC= Attach cell library
RF= Attach reference file
DR= Displays contents of a text file
CT= Attach color table
AM= Attach and activate menu
AT= Activate tutorial

Database
AE= Define active entity
DA= Displayable attribute type
DB= Attach control file
DS= Specify fence filter
FI= Set database row as active entity
RA= Set attribute review selection criteria
RS= Name report table

Digitizing
SD= Active stream delta
ST= Active stream tolerance

User command
UC= Activate user command
UCC= Compile user command
UCI= User command index
OX= Retrieve user command index

Other
EL= Create element list file
FF= Copy fence contents to new design file
GO= Global origin
SF= Move fence contents to new design file