

Cost Justification

Case Study file #: 031217-1

A study demonstrating
project cost savings
using *Global File Changer* and *RefManager*
Components of *MicroStation Productivity Toolkit*

Case study: Ray Danley, Washington Group International

One of the biggest hurdles that Ray Danley — CAD Manager for Washington Group International in Irvine, California — once faced was having to reorganize, rename, and rebuild over 4,000 MicroStation files.

The task involved performing 4,000 file name changes, over 4,000 text changes and an average of seven reference file name changes per drawing. These changes would have taken an average of 12 minutes per file to perform and would have needed a manual quality assurance check to correct human errors.

Instead, Ray and his team used Axiom's *Global File Changer* and *RefManager* to surmount this formidable task.

"I think the figures below are a fair and conservative estimate of the cost of making the changes **without using** Axiom tools."

Time and cost of making the changes manually:

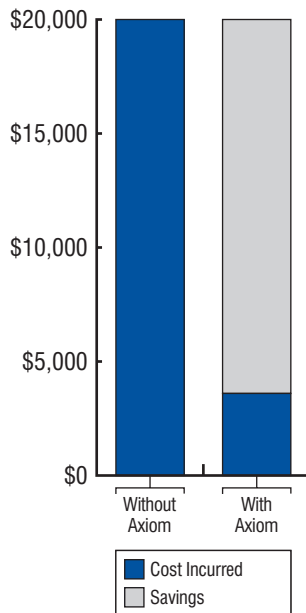
$(4,000 \text{ drawings}) \times (12 \text{ minutes per drawing}) / (60 \text{ minutes}) = 800 \text{ man-hours}$
 $800 \text{ man-hours} / 4 \text{ CAD technicians} = 200 \text{ hours}$
4 CAD technicians at an average cost of \$25.00 per hour
 $(200 \text{ hours} \times 4 @ \$25.00 \text{ per hour}) = \$20,000$

"The figures below are the actual cost of making the changes **using** Axiom tools."

Actual time and cost of making the changes automatically:

26 hours in total (20 hours overtime since it was done over the weekend)
4 CAD technicians at an average cost of \$25.00 per hour
 $(6 \text{ hours} \times 4 @ \$25.00 \text{ per hour}) + (20 \text{ overtime hours} \times 4 @ \$37.50 \text{ per hour}) = \$3,600$

MicroStation Productivity Toolkit saved Washington Group **\$16,400** in just **one use on one project over one weekend** and potentially saved them millions of dollars in lost income.



“ The wrong decision on how to proceed could have delayed the project’s deadline, affected many people’s jobs and cost millions of dollars. ”

Ray Danley, Washington Group International