



The Power of Universal Viewing

SPICER
CORPORATION

Imagination® | Image a•X™ | ViewCafé®

Save Time and Costs for Viewing Multiple CAD Formats

Businesses today need to

constantly evolve and move quickly to stay competitive.

New ideas, new products, new

processes, and committed

business partners are all

necessary to help a company stay

ahead of competitors. But with so

many disparate software systems

involved in product design,

manufacturing, and supply chain

management, how can employees

and business partners work

together to successfully exchange

business-critical information

throughout the enterprise

and beyond?

Business Process Management — EDM/ECM/PDM/PLM, and more

The Challenge: As our manufacturing company continues to grow, we're constantly searching for ways to build better products more efficiently and cost effectively. Outsourcing much of the sub-assemblies is a great way, but it means that our engineers and purchasers are working more with international suppliers and design teams. As a result, we're relying more on the Internet to help us quickly communicate with them. E-mail is a great way to distribute specifications and drawings, but it also poses new challenges. We must ensure that everyone is working with the most current version of a drawing, that the document is secure, and that markups added to drawings can be transmitted to the appropriate team members. Also, e-mail lets everyone send electronic documents back and forth, but what's the point if not everyone can view them? We don't want to convert documents to neutral formats such as TIFF or PDF, and we want to avoid giving people expensive CAD programs just to look at drawings. We need some type of tool that would give our people secure, universal access to our documents.

The Solution: Spicer ViewCafé seamlessly integrates with our Product Lifecycle Management (PLM) and Supplier Relationship Management (SRM) systems, giving the design teams, purchasers, and business partners the ability to securely access required documents from anywhere, at any time. The integration with our PLM and SRM systems ensures that the latest versions of the documents are always available so we never have a problem with someone referencing an old drawing. ViewCafé can access critical document information, such as status or revision number from the PLM system and display a customized stamp anywhere on the image. Team members anywhere in the world can view files right from their own desktops and make markups with easy-to-use tools. Markups are saved in a separate file, so the original can never be altered. The online collaborative review process really speeds up the development and procurement processes, helps us build better quality products, and saves a lot of time and money.

When seeing means

DWG DXF HPGL RTL PLT DGN CAD SolidWorks Gerber CATIA Pro/E SAT STEP VDA-FS IGES STL VRML GIF JPEG JPEG 2000



IT & Integrated Enterprise-wide Communication

The Challenge: Several months ago we implemented a Web-based document management system and deployed it to the whole company—research and development, finance, manufacturing, sales, and others. Employees immediately saw the benefits of using a centralized database for storing and retrieving documents....soon everyone began exchanging and accessing information. Unfortunately, we didn't consider the many authoring tools that our employees use and the file formats they generate. This left many users unable to view or edit some files because they didn't have the required software. Standardizing on several authoring tools wasn't an option, so we started asking users to convert files to a generic format like PDF and TIFF and view it with a free viewer. In the end, we found that conversions lacked the fidelity of the originals, we couldn't edit them, and we now had to maintain and store two sets of documents.

The Solution: Spicer's viewing products let us view over 200 different file formats without converting them. This means employees can contribute content to the database using the software tools they know—everything from MS Word to CAD tools. We were able to custom tailor viewing solutions with Spicer's interoperable full, thin, and ActiveX solutions. This not only kept costs down, it also provided the right viewer for each person. Spicer's products all have powerful APIs so we were able to tightly integrate them with our EDMS to take advantage of such features as revision control, and security. We can even conduct collaborative design reviews with Spicer's markup tools and track markup sessions through our EDMS. Another benefit was that everyone in the company—engineers and non-engineers alike—had no problem using the easy-to-use controls of Spicer viewers.

Access Critical Information—When it Counts

The Challenge: Every day we add hundreds of documents to our archive. Government regulations and corporate policies play a major role in defining how we index, store, access, distribute, and destroy documents. As the file archive continues to grow, so does the challenge of ensuring timely access to critical documents. If an important document can't be retrieved in a reasonable time or is misplaced, government officials may shut down our facility until the problem is rectified. Recently we implemented an electronic document management system that is much faster than handling paper documents, but now we're faced with other obstacles. For example, of the more than 20 different electronic file types that we store, how can we ensure universal, long-term access regardless of whether the user has the software that was used to create the file or not?

The Solution: We used Spicer Imagenation in conjunction with our large format and office scanners to scan all our paper documents and convert them into electronic files. We can control our scanners directly through the Imagenation user interface, and its scan cleanup features produced documents that were better than the originals in some cases. Imagenation was integrated with our electronic document management system and now, anyone in the organization can quickly view, mark-up, and print the most recent version of any type of electronic document right from his or her desktop. Printing from Imagenation is remarkable, with options such as tiling, scaling, dither control, stamps, and banners. Deploying Imagenation was also simple, as many people—from engineers to purchasers to maintenance people—were able to learn the easy-to-use controls without any special training.

Information & Records Management

everything

MrSID SMF TIFF MIL BMP CGM SVG CALS PDF PS DOC RTF XLS PPT TXT EMF WMF PCX DG TG4 RLC PNG OTG Cold Vidar



Take the test

What areas in your business could be improved with Universal Viewing?

Scan | View | Markup | Edit | Print | Web | 3D

Spicer solutions

serve a wide range of industries and users across the extended enterprise.

Powerful performance and ease of use, for the exchange of technical, business, and engineering content.

If you answer YES to any of the following questions, let Spicer show you how your enterprise could benefit immediately from Spicer Universal Viewing. Call us, or visit www.SPICER.com to download your FREE software evaluation.

1. **Gain competitive edge.**

Do you need to move ahead of your competition by streamlining business processes through:

- Accelerated product development?
- More efficient manufacturing?
- Better communications with your supply chain?
- Effective delivery of services?

Yes No

2. **Ensure content security.**

Do you need to give employees and business partners secure and immediate access to electronic documents that are stored in a central repository?

Yes No

3. **Eliminate boundaries to data access.**

Do you lack the means to view some types of electronic files that are used within your organization and by your business partners?

Yes No

4. **Get the most from your document management system.**

Do you need an enterprise-wide viewing and markup tool that is:

- Scalable?
- Tightly integrated with your enterprise systems?
- Powerful and easy-to-use?

Yes No

5. **Ensure secure content access.**

Do you want to quickly and securely:

- Share documents with business partners online or via your corporate network?
- Eliminate the need to transfer sensitive information by e-mail, fax, or courier?

Yes No

6. **Review documents collaboratively.**

Do you need to give your employees and business partners the ability to collaboratively review project documents at any time, from anywhere in the world?

Yes No

7. **Choose from customizable universal viewing options.**

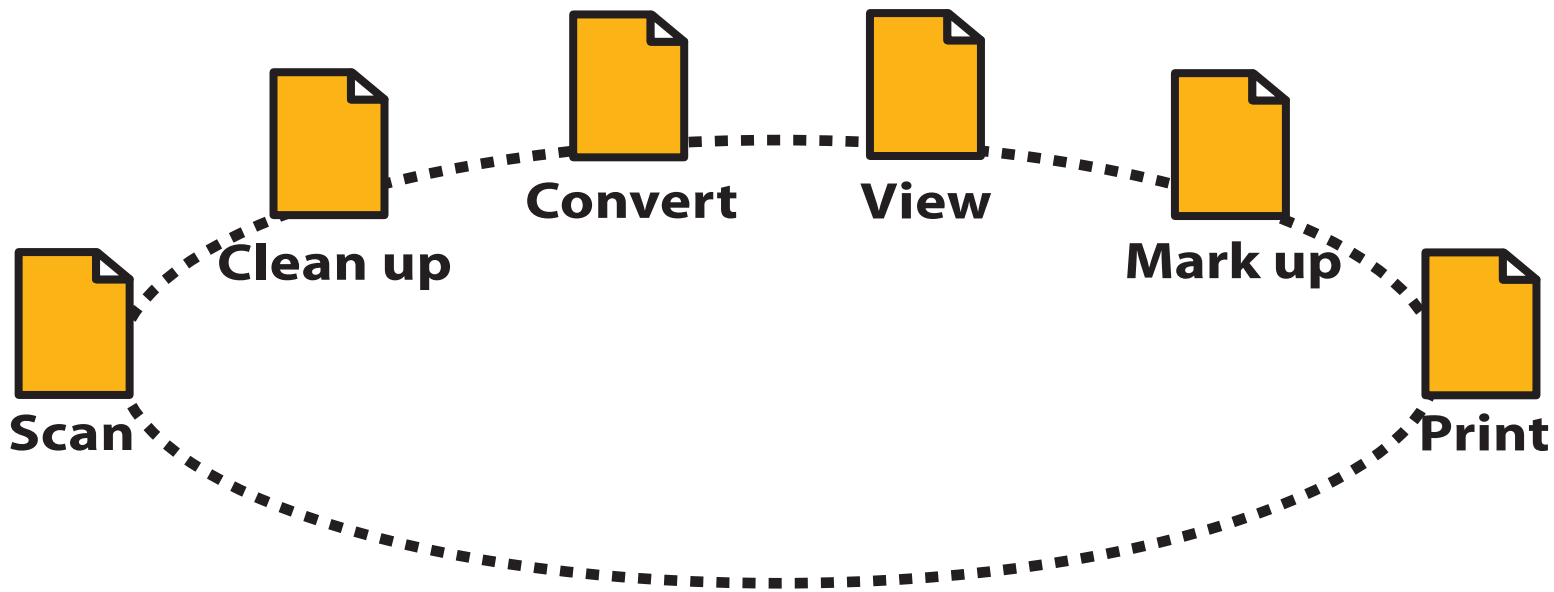
Do you want the flexibility of selecting from multiple universal viewing solutions that offer various feature sets and architectures (full client, Java thin client, ActiveX)?

Yes No

8. **Get complete document lifecycle solutions—from one supplier.**

Could your enterprise benefit from the convenience of interoperable, universal viewing solutions from a single software vendor and connect the entire lifecycle of your documents (scan, view, markup, print, and collaborative review) to your enterprise software?

Yes No



bridging the gap

DWG DXF HPGL RTL PLT DGN CAD SolidWorks Gerber CATIA Pro/E SAT STEP VDA-FS IGES STL VRML GIF JPEG JPEG 2000

Imagination®

Control the document lifecycle from your desktop. Nearly half a million users from small businesses to Fortune 500 companies use Imagination every day to scan, clean up, view, mark up, edit and print documents.

Image a•X™

Combine the proven capabilities of Imagination with Microsoft ActiveX™ technology to create customized Web or desktop viewing and markup solutions that precisely meet your enterprise needs.

ViewCafé®

Advanced Java™ 2 and 3D technology elevates ViewCafé to new heights in thin client viewing. Deploy ViewCafé's easy-to-use applet in a browser or as a Java bean application and share information and ideas with colleagues anywhere in the world.



Supported Formats

(Partial List - Over 200 Formats Available)

CAD
 AutoCAD 2004 (DWG, DWF)
 CADRA 8, 9, 10, 11
 CAD Overlay
 CoCreate ME10 DXF
 Gerber (RS 274-D & RS 274-X)
 GTX RasterCAD
 Microstation DGN, DGN v8
 Softelec VPMAX
 SolidWorks 2D Drawing (2000, 2002, 2004)

3D CAD
 CATIA
 ProE 17-2000i2
 SAT
 STEP
 VDA-FS
 IGES
 STL
 VRML
 XGL/ZGL
 SolidWorks 3D Model parts and assemblies (2003, 2004)

Raster
 AllIM Type II
 Auto-trol DX
 Brooktrout FAX
 CAD Overlay
 Calcomp CCRF
 CALS
 Compuserve GIF
 DCX Multipage
 DDIFF
 EDMICS C4
 FileNET Banded
 FileNET Tiled
 Formtek
 GEM IMG
 Group IV
 GTX Group IV
 Hitachi Raster HRF
 IBM IOCA
 Image Machines
 TG4/IG4
 ImageCenter TG4
 Intergraph
 JEDMICS
 JFIF-JPEG
 JPEG 2000
 LaserData
 MicroDynamics MARS
 MrSID
 OS/2 BMP
 PCX
 Photomatrix Group 3 & 4

PNG
 Progressive JFIF
 RLC, RLC 2, RCLX
 Skantek
 Sun Raster
 Targa Truevision
 TIFF (various)
 Versatec VDS
 Vidar
 Visio 2003 (.vsd) preview
 Windows BMP
 WINFAX Pro
 WordPerfect WPG
 Xerox Docuplex
 Xionics Group 4
 XWD RAW
 Zsoft ZGF

Vector Graphics
 AQU
 Auto-trol DG
 Auto-trol TI
 CADD5
 CGM
 CIMAGE DWG
 Compressed MI
 Enhanced Metafile EMF
 Macintosh PICT
 MI
 Micrographx DRW
 SBD
 SVG
 Windows Metafile WMF
 XMS

Text
 Adobe Acrobat PDF
 ASCII Binary & Text
 Microsoft Excel 97, 2000, XP, 2003
 Microsoft PowerPoint 2000, XP, 2003
 Microsoft RTF
 Microsoft Word 97, 2000, XP, 2003
 OMNEX Aqua II
 OTG COLD
 TeamWorks (TW) COLD
 WordPerfect 5, 6, 8, 9, 10
 ZIP

Print/Plot
 Adobe Acrobat PDF
 PostScript
 EPS
 HPGL
 HPGL/2
 HP RTL
 Calcomp 906/907

	Features/Product	Imagenation	Image a•X	ViewCafé
Architecture	Desktop client	•	•	
	Two-tiered client-server	•	•	•
	Three-tiered client-server			•
	Web plug-in	•		•
	Integrate to EDM/ECM/PDM/PLM	•	•	•
Features	View 200+ file formats (raster, vector, office)	•	•	•
	View 3D native formats	•		•
	View 3D neutral formats	•	•	•
	View multiple documents simultaneously	•	•	•
	Add 2D/3D markups, annotations	•	•	•
	Compare documents	•		
	2D measurements	•	•	•
	3D measurements	•		•
	High resolution printing	•	•	•
	Large format printing, advanced tiled printing	•	•	•
	Stamps and banners	•	•	•
	Create Thumbnail Images	•	•	•
	Advanced and batch printing (Bilevel CAD, pen masking/mapping, etc.)	•	•	
	Scan	•		
	Scan cleanup (despeckle, deskew, crop)	•		
	Save as multipage document	•	•	
	Hotspot file linking	•	•	•
	Configurable user interface	•	•	•
	Multi-language support	•	•	•
	Interoperable markup sharing	•	•	•
Windows 98, 2000, ME, NT, XP	•	•	•	
UNIX/Linux	•		•	
Licenses	Concurrent licensing	•		•
	Named seat licensing	•	•	•
	License manager	•		•
Which solution is right for your enterprise?				
Evaluate Your Requirements	Do you require a Web-based solution?		•	•
	Do you require a browser-based user interface?	•	•	•
	Do you require a Java-based thin client?			•
	Do you operate client machines on multiple platforms (Windows, UNIX, Linux, etc.)?	• (Windows & UNIX only)		•
	Do you need to access documents from a central repository?	•	•	•
	Do you require concurrent licensing?	•		•
	Do you want limited software installation on the client machine?		•	•
	Do you want centralized control over user access and permissions for documents?	•	•	•
	Do you need direct control of large format and office size scanners?	•		
	Do you require document cleanup and file conversion capabilities?	•	•	
	Do you require batch processing capabilities?	•		

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