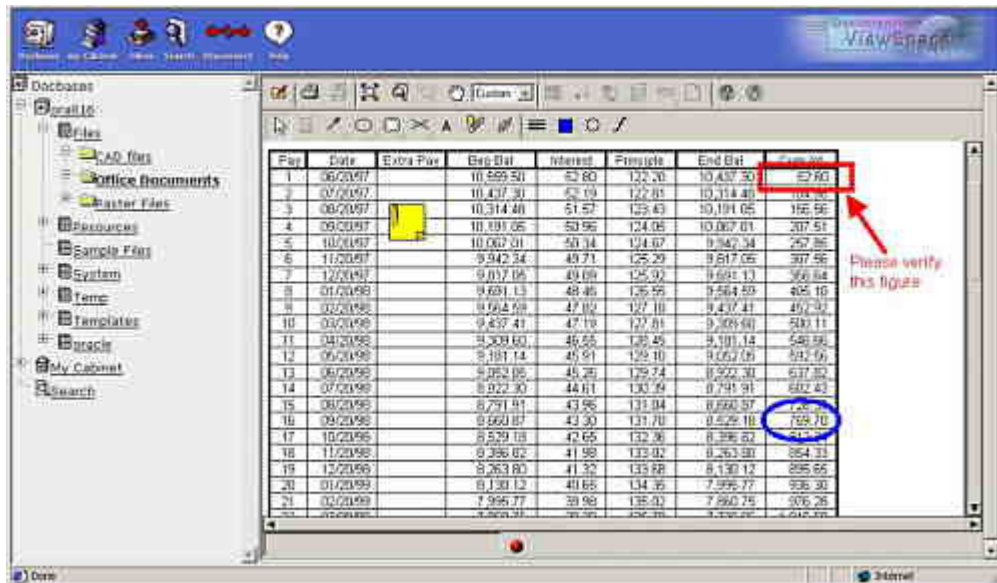


## Applied Micro Circuits Increases Document Management Efficiency

San Diego, CA-based Applied Micro Circuits Corporation (AMCC) designs, develops, manufactures, and markets high-performance, high-bandwidth silicon solutions empowering intelligent optical networks. The company utilizes a combination of high-frequency analog, mixed-signal and digital design expertise coupled with system-level knowledge and multiple silicon process technologies to offer integrated circuit products that enable the transport of voice and data over the fiber optics networks.

Nadine Siddell, AMCC program analyst, is responsible for administering the company's Documentum enterprise content management platform. The Documentum platform is enhanced with Informative Graphics' (Phoenix, AZ) Brava! product, which allows users to view, redline, collaborate on, and print drawings, documents without the need of a native application. Brava! allows users to view any type of file format including 2D and 3D CAD model files such as AutoCAD, SolidWorks, Autodesk Inventor, Pro/ENGINEER, and Solid Edge. Its simple interface eliminates the need to install on every user desktop since it's a server based product. The technology can accommodate hundreds of concurrent users without the need for additional servers. Informative Graphics configured Brava! to suit the AMCC Documentum user environment.

Documentum is enterprise content management software that helps companies automate the production, exchange, and personalization of all types of content. The technology is built on an Internet-scale, XML-enabled standards-compliant platform. Documentum products manage Web content, power portals, enable collaborative commerce, and solve regulatory content challenges.



Part	Date	Extra Pay	Beg Bal	Interest	Payments	End Bal	Amount
1	06/20/97		10,589.50	53.60	122.20	10,437.30	23.60
2	07/20/97		10,437.30	52.09	122.80	10,314.49	102.91
3	08/20/97		10,314.49	51.57	123.43	10,191.06	192.96
4	09/20/97		10,191.06	50.96	124.06	10,067.01	287.51
5	10/20/97		10,067.01	50.34	124.67	9,942.34	287.85
6	11/20/97		9,942.34	49.71	125.29	9,817.05	387.56
7	12/20/97		9,817.05	49.06	125.93	9,691.13	386.84
8	01/20/98		9,691.13	48.40	126.55	9,564.58	485.15
9	02/20/98		9,564.58	47.72	127.18	9,437.41	487.33
10	03/20/98		9,437.41	47.03	127.81	9,309.60	589.11
11	04/20/98		9,309.60	46.32	128.45	9,181.14	586.96
12	05/20/98		9,181.14	45.61	129.10	9,052.04	681.59
13	06/20/98		9,052.04	44.89	129.74	8,922.30	677.33
14	07/20/98		8,922.30	44.16	130.39	8,791.91	682.43
15	08/20/98		8,791.91	43.56	131.04	8,660.87	726.70
16	09/20/98		8,660.87	43.30	131.70	8,529.18	641.36
17	10/20/98		8,529.18	42.65	132.36	8,396.82	641.36
18	11/20/98		8,396.82	41.98	133.02	8,263.80	654.33
19	12/20/98		8,263.80	41.32	133.68	8,130.12	656.65
20	01/20/99		8,130.12	40.65	134.35	7,995.77	636.30
21	02/20/99		7,995.77	39.98	135.02	7,860.75	606.26
22	03/20/99		7,860.75	39.29	135.70	7,725.05	616.39

Siddell says one of the reasons AMCC purchased Documentum was to establish a single repository for all of the company's documents and to be able to manage the documents globally. "Before implementing the software, says Siddell, "each AMCC division globally managed data and documents separately and differently. In addition, no one could visualize or share documents or information. Because of this scenario, it typically took a long time to create technical data sheets, for example, especially when they required an intervention and approvals from various divisions throughout the organization. It was hard for users to know what to do throughout one division and difficult to locate information in order to participate in the work. We were using several different types of methodologies and techniques to accomplish the various tasks. Differentiating among the different division in terms of document management was a definite challenge.

"Using Brava! within the Documentum platform, we realized the advantages we could gain by implementing technology that would allow us to perform automated approvals. The beauty of having both tools allows us to facilitate the automated creation and editing of documents. We learned that Brava! with Documentum would help us expedite the release of new products faster via an automated approval process. As a result, All AMCC documents will have the same look and feel and identical formats no matter what division from which they are created as a result of implementing Documentum."

### Documentum advantages

Siddell and her team have been implementing Documentum and Brava! over the last several months and are poised to "flip the switch" any day now to provide Documentum access to all AMCC users. The company purchased approximately 200 seats of the software. She notes several benefits to using the technology including:

Reducing cycle time. While it's too soon to cite specific quantifiable measurements, Siddell believes that the ability to electronically manage documents throughout the organization will have a significant impact on product cycle time.

Migrating from paper to electronic approvals using Brava!

Improving audit trail. Users will know what parts of designs are changed, who changed them, etc. A central repository will maintain all the information associated with all products.

Assisting in 9001 certification for AMCC divisions slated for certification.

### **Engineering change control project**

In the next several days, Siddell will be rolling out the Engineering Change Control document. "In the past, when someone needed to generate an engineering change to a specification or a document, the task was all done by hand, on paper," Siddell explains. "The subsequent approvals were also all done on paper. But, once we turn the switch on Documentum with Brava!, those processes will all be electronic - submissions, approvals, documents being input to the repository, knowing which documents contain changes, who changed, and access to the reject audit trail. All the documents associated with those processes will be completely electronic."

The AMCC quality division is the driving entity behind the Documentum deployment.. Siddell says that while implementing the software, the team evaluated the document management process. "While converting and changing the process, we took advantage of the opportunity to evaluate our methodologies," adds Siddell. "We learned both the good and the not so good about our processes. As we implement Documentum, our enhanced methods of exchanging and managing documents will evolve."

### **Brava! add-on to Documentum**

AMCC is a global organization. Its employees use PCs as well as UNIX workstations. Siddell says, "One of the key benefits that we realized in using Brava! was that it suits a multi-platform environment and it allowed us to do review and approval electronically via redlining." Brava! allows users to publish drawings and images in native file formats for viewing and to exchange ideas by overlaying markups without requiring the same hardware platform, native software application or browser.

"We use Brava! for redlining Documentum documents," says Siddell. "When a document goes through approval, users can perform online redlining and make online annotations. Prior to the new system, when a change needed to be made, users printed out the hardcopy document, noted the change on paper, and returned it to the document control group. The onus was on the document control group to manage all the paper documents and the engineering changes. With the new system in place, the individual users are going to be responsible for making those changes electronically."

Siddell says that AMCC's Documentum users will realize several advantages using Brava! with the documents and platform including:

Enhanced online communication and collaboration among all design team members regardless of location.

Elimination of hardcopies, copying, and reproduction efforts associated with the traditional methodologies.

Organization, management, and proliferation of project documents via Web access.

Accessibility to multiple software formats including popular CAD applications.

Reduce project costs and minimize delays of project by viewing and redlining the documents or drawings in a browser quickly without any s/w installed on the user's desktop.

### **Purchase and learning curve**

Prior to selecting Documentum and Brava!, Siddell and her team evaluated other content management products including Annodoc and AutoVUE. She says they purchased Informative Graphics' product because it is stable, easy to install and use, and address a multi-platform workplace. According to her estimation, 80 percent of the Documentum users at AMCC will be up and working productively using the combined software system within less than one day. Those who are using it really like it. She adds, "The people at Informative Graphics have been very responsive to our needs since integrating Brava! with the Documentum system. The company was especially helpful with the implementation and ramping up of the software."

**Note: Informative Graphics is a registered trademark, and Brava! is trademarks of Informative Graphics Corporation. All other names are property of their respective owners.**