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Wayne State University - Detroit, Michigan

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Wayne State University, Michigan's only urban research university, has built an integrated campus infrastructure with Sun technologies, delivering services on demand to 32,000 students enrolled in more than 350 major subject areas, in 14 schools and colleges.

Wayne State has integrated disparate applications, from Student Systems (SCT Banner), ELearning (Blackboard), mail (Mirapoint), and others, into a seamless bundle of services using Sun's portal technology (Campus Pipeline). Wayne State's IT infrastructure is based upon a robust Java environment, Solaris OS, and a variety of mid to high end servers and storage equipment from Sun.

Along with our leading edge partners, Sun has enabled Wayne State to deliver on its three top priorities.....which are to facilitate communication and collaboration, share networked resources, and make it easier to do business with the university.

Wayne State has been a Sun COE for over two years. Doing this time, the University has been an excellent showcase for Sun and Java technologies in action. Their CIO, John Camp, has been a tireless crusader for Sun; he has hosted numerous prospects on campus, convincing them to adopt Sun technology and products, and has been an active collaborator in Sun's marketing efforts in higher education.

We are now working to get Wayne State designated as an authorized iForce Center for SCT-on-Sun.

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Wayne State was an early adopter of the Sun ONE architecture; one of the University's top priorities was to build a mission-critical, Internet-based infrastructure. The key goals were:

- Leveraging enterprise application investments
- Integrating applications via campus portals
- Creating open messaging and middleware environment that would evolve with business needs

After Wayne State selected SCT's suite of administrative applications, the University turned to Sun for help.

The University also selected BMC Software and Campus Pipeline. Using BMC software, Wayne is implementing an Enterprise Nerve Center to monitor e-services for availability, performance, and integrity. The nerve center is responsible for posting real-time reports about services, measuring compliance with service-level expectations, and leading service-specific problem-solving teams that strive to eliminate causes of problems.

Wayne is using Campus Pipeline to unify access to academic and administrative systems, including SCT's Banner2000 suite.

Essential Plumbing Messaging, Commerce, and Middleware Services

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The key issue for Wayne State revolved around the robust foundation elements. Messaging, commerce, and middleware services provided by the Sun ONE architecture are essential for building scalable solutions.

Scalability was a key requirement for Wayne State because the solutions had to serve over forty thousand students, faculty, and administrators.

The messaging, commerce, and middleware layer included software for identification, authentication, authorization, directories, and security. Wayne State paid particular attention to this layer as it wanted to ensure that decisions and selections made for core middleware were consistent with strategic directions for middleware in higher education, especially among members of the Internet2 community.

#### Paving the Way for Services on Demand

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Wayne State is entering the next phase of its infrastructure build-out paving the way for services on demand. Wayne State, like many others in higher education and in Corporate America, is increasingly concerned about anticipating customers needs, and is striving to make it easier for people to do business with the institution.

As a result, the next generation campus infrastructure must be put in place to deliver unique education value propositions....under this initiative, students will be able to go online anywhere, any time to submit an application for admission, register for classes, take classes, check their grades, pay tuition, and more.

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