

# Case Study: UNC Health Care

**The Industry:** Healthcare

**The Organization:** The University of North Carolina Health Care system ("UNC") is working to be the Nation's leading public academic health care system - Leading. Teaching. Caring.

**The Problem:** UNC needed to ensure the stability and performance of its online communication systems. Their system, the open source version of the Plone CMS running on the Apache web server on Windows, was unstable and failing to meet the growing website traffic.

**The Challenge:** UNC was fully utilizing their current system and had invested in numerous custom developed integrated applications. They wanted to leverage their current investment but move to a stable and maintainable platform.

**The Solution:** The Enfold Systems software platform including Enfold Server, Enfold Proxy and Enfold Desktop - utilizing the Plone Content Management System - was chosen for its stable, supported and windows-integrated solution.

- **Platform Installation** - Enfold Systems worked with UNC to install and maintain the Enfold Software platform. Enfold Server significantly reduced the amount administrative resources required to maintain and monitor the system.
- **Content Migration and Custom Applications** - Content was migrated and validated from the previous databases, including data from the previous system customizations. Existing custom applications were reviewed and revised to ensure the applications were optimized, and did not impact the overall performance of the new system.
- **Security and Access** - Enfold Server was configured to utilize the existing Windows Active Directory to manage site access - allowing a "single sign-on" for users of UNC systems. In addition IP restrictions and other security precautions were taken to ensure the privacy of vital health care records.
- **Site Optimization** - The Open Source Plone CMS windows installation was replaced with Enfold Server which, out-of-the-box, enabled Active Directory integration, MS office document indexing, and allowed UNC to utilize their in-house Microsoft technical skills to manage the system. Enfold also replaced Apache with Microsoft's IIS and Enfold Proxy. This enabled a significant performance boost and gave the customer load balancing.
- **Documentation and Training** - Enfold Systems developed detailed systems documentation to allow administrators to maintain the system on their own. In addition, on-site user training ensured users were familiar and comfortable with the features and mechanics of the new system.

**The Results:**

- Stable and scalable platform
- Leveraged prior investment
- Increased system security and ease of user management
- Supported and maintainable content management platform



**From our Client**

*"Enfold Systems provided knowledgeable and focused experts to ensure the success of our new system. Our sites' traffic capacity has increased by 3000% while maintaining the functionality and security we needed".*

*James Walsh,  
IT Staff Director  
UNC Health Care*

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**Project Lifecycle**

Enfold Systems offers services to support our products throughout your systems lifecycle. We offer project management and custom development services to ensure that your system is delivered on time, and meets or exceeds industry standards. We also provide deployment services to ensure that your production environment is configured to provide maximum performance and reliability.

**Time-To-Market**

Our knowledgeable staff and Agile development process allow us to deliver a scalable and robust application that you can maintain with confidence - on budget, on time!

**Your Development Team**

Enfold Systems staff includes internationally known software luminaries. Our team is composed of people such as Alan Runyan, co-founder of the Plone® Content Management System, and Mark Hammond, author of *Programming in the .Net Environment* and *Python Programming on Win32*.