

## Observer Helps Build Emageon's Image

Emageon helps its clients transform traditional, film-based medical images into fully digital images, creating a system where critical information, such as MRIs and CT scans, can be stored and shared throughout the enterprise. Such a transformation helps medical facilities create on-demand information retrieval capabilities and allows them to share information beyond the bounds of the radiology department.

Forward-thinking clients are eager to implement this state-of-the-art technology and reap the increased productivity and time savings that result. To provide this cost-effective, high performance solution, Emageon utilizes its clients' existing networks and infrastructure, making them dependent on network health to ensure implementation and long-term success. Network analyzers—which provide a snapshot-in-time of data transmitted via the network—are integral to Emageon's business.

"Without the use of a network analyzer, a network is an "amorphous blob" to those who use it," says Joe Wortmann, founder and vice president of architecture for Emageon.

### Tackling the "Amorphous Blob"

In addition to standard network protocols, Emageon's solution employs an industry standard called DICOM (Digital Imaging and Communications in Medicine), a network protocol utilizing TCP/IP which has become a standard method of transmission of medical images and their associated information. When Emageon began its search for a network analyzer tool, it knew it needed the ability to identify network information, and the support of the necessary DICOM protocols. This made Emageon's search more complex, and quickly reduced the field to two product possibilities.

"I am the in-house DICOM expert and spent a lot of time working with both products," says Wortmann. "In the end, it was Network Instruments Observer that won out—providing an excellent overall network analyzer as well as the support of the DICOM level of protocols."

Observer provides protocol analysis, network troubleshooting, and long-term trending for all shared and switched networks. Emageon ultimately adopted Observer and Expert Observer, which adds an integrated real-time/post capture Expert system for use in its development and quality assurance areas.

### More than a Pretty Picture

Outside of its DICOM capabilities, Wortmann also noted another key Observer feature: the ability to look at areas of communication while other areas are running. The competing product required a stop-capture to look at an area—and that also stopped productivity.

Emageon's application of Observer and Expert Observer continues to grow. Today, Emageon's implementation teams capitalize on Observer's features to provide clients with an even higher level of customer service. In addition to completing on-site packet captures to let customers know that their Emageon system and network are performing as expected, Observer also provides critical data on potential network problems—before they happen.

"It's an invaluable tool for the company and we don't do any integration without it," says Wortmann.

### About Network Instruments, LLC

Network Instruments is the industry-leading developer of distributed, user-friendly and affordable network management, analysis and troubleshooting solutions. The award-winning Observer family of products combines a comprehensive management and analysis console with high-performance probes and network TAPs to provide integrated monitoring and management for the entire network (LAN, 802.11 a/b/g, gigabit, WAN). All Network Instruments products are designed utilizing a Distributed Network Analysis (NI-DNA™) architecture. With NI-DNA, the Observer solution set simplifies network troubleshooting and management, optimizes network and application performance and scales to meet the needs of any organization. Founded in 1994, Network Instruments is headquartered in Minneapolis, Minnesota with offices in London, Munich, Paris, Toronto, and multiple cities throughout the United States with distributors in over 50 countries. More information about the company, products, innovation, technology, NI-DNA, becoming a partner, and NI University can be found at: [www.networkinstruments.com](http://www.networkinstruments.com).

### About Emageon

Emageon provides an enterprise-level advanced visualization and infrastructure solution for the clinical analysis and management of digital medical images within multi-hospital networks, community hospitals and diagnostic imaging centers. Emageon's web-enabled software provides physicians in multiple medical specialties with dynamic tools to manipulate and analyze images in two and three dimensions. With these tools physicians have the ability to better understand internal anatomic structure and pathology, which can improve clinical diagnoses, disease screening and therapy planning. Emageon's open standards-based solution is designed to help customers improve staff productivity, automate complex medical imaging workflow, lower total cost of ownership and provide better service to physicians and patients. On November 1, 2005, Emageon announced that it had acquired Camtronics Medical Systems, Ltd. Camtronics, which was formerly a wholly owned subsidiary of Analogic Corporation, is a leading provider of cardiology image and information management systems. For more information, please visit [www.emageon.com](http://www.emageon.com).

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