



FOR IMMEDIATE RELEASE
August 4, 2011

Contact: Laury Sendek
Corporate Communications Manager, Noblis
703-610-2002
laury.sendek@noblis.org

Noblis Assigned Patent for Innovation in Network Resiliency *System and Method Improves Resiliency for High Availability Networks*

FALLS CHURCH, Va.— August 4, 2011—Noblis, Inc. a leading science, technology and strategy organization that helps clients solve complex scientific systems, process, and infrastructure problems in ways that benefit the public, announced today the award of a patent for a “System and Method for Improving Network Resiliency.”

This system and process, invented by Noblis Senior Fellow David Garbin and Joseph Knepley, Jr., were developed to provide resiliency to network infrastructures in environments where traditional established methods frequently fail. The system analyzes the underlying physical characteristics of the network topology to identify physically diverse backup routing paths among nodes in the network. The system takes as input the number of diverse paths desired and a characteristic(s) used to choose the most desirable paths, such as delay, flow, or cost. The invention searches for multiple solutions for the selected number of diverse paths within the network.

“Everything depends on networks. In today’s society, the integrity of high availability networks is essential to the operational success of business and government,” says Garbin. “High availability networks require resilient, physically diverse and redundant paths that can withstand damage that is both natural and manmade. We recognized vulnerabilities in the traditional methods used to assess network resilience and developed a means to enhance the integrity of this critical infrastructure using multiple redundant paths.”

The patent resulted from discoveries made through Noblis’ internal research and development program, which produces innovative solutions to complex scientific and technological challenges faced by the nation. The invention has already yielded dramatic improvements in the reliability of mission-critical, national telecommunications networks.

About Noblis, Inc.

Noblis is a science, technology, and strategy organization that brings the best of scientific thought, management, and engineering expertise in an environment of independence and objectivity. We work with a wide range of government and industry clients in the areas of national security, transportation, healthcare, environmental sustainability, and enterprise services to find solutions that are practical, forward thinking, and sustainable. Noblis has been recognized three times as one of the [World’s Most Ethical Companies by the Ethisphere Institute](#) and as one of the [Best Small and Medium Workplaces by the Great Place to Work Institute](#) five times. Further information is available at noblis.org.