# NCOIC Update to Members – December 2014

**Dr. Tom Cellucci Joins NCOIC Board**
Dr. Thomas A. Cellucci, a pioneer in rapid technology development and commercialization-based public-private partnerships, has been named to the NCOIC Board of Directors. Currently the CEO of Ecrypt Technologies, Dr. Cellucci was the first Chief Commercialization Officer at the U.S. Department of Homeland Security and the White House, serving in both the Bush and Obama Administrations. He has also worked in the private sector for more than 30 years, serves on a number of boards and is the author of more than 24 books and 192 scholarly articles. At Ecrypt, he leads a team that specializes in military-strength information security solutions for enterprise, government and military. Ecrypt works to empower organizations to communicate and collaborate without risk of liability, reputation damage, competitive threat and other negative outcomes.

"We welcome Dr. Cellucci's proven leadership in bringing the public and private sectors together to solve real-world problems. His experience in the rapid and practical application of technology to solve complex and sometime vexing problems has garnered him the reputation as a strategist who executes. His strategic vison coupled with his execution precision will help us take NCOIC to the next level," said Lt. General Harry Raduege (USAF Ret) of the NCOIC board.

**Welcome to New NCOIC Members**
Tom Forrest, individual member; and McClure, Brown and Associates www.mcclurebrown.com (representative: Dr. Alenka Brown, President and Chief Scientist).

**RRI Demo for Advisory Council Held in November**
A highlight of the quarterly NCOIC Advisory Council meeting on November 18 was a demonstration of the new Rapid Response Incubator. The RRI is a persistent, hybrid-cloud laboratory and development environment that supports rapid technology/capability evolution. The leaders and members who attended the meeting learned how NCOIC has developed the RRI to further its mission to promote secure information flow and cross-domain interoperability in an unclassified environment or commercial market.

They received a status report on the project's initial stage: the creation of a secure environment that allows the rapid assembly of emergency response information-sharing capabilities. The RRI is actually a "cloud of clouds" across three public and two private clouds and uses a combination of real-world applications and services, plus others that are still in development. The incubator is designed to demonstrate the feasibility of interoperability concepts and support scenarios (use cases) from many different domains.

There were presentations by six companies that are contributing technology resources as well as project development and leadership expertise to the incubator project. The RRI team is currently focused on several fronts, including: expanding the capability of the persistent environment; evolving interoperability and federated brokerage; creating opportunities for customers to use the

RRI; and increasing the pool of teammates and contributors. For example, there is already growing interest in NCOIC membership and RRI participation – the consortium has added five new members in the last 45 days.

The leaders noted the consortium's strengths that bode well for the success of the RRI, which would help the organization achieve its goals and create greater financial viability. In particular, NCOIC has the patterns and processes needed to guide the effort, a range of expertise and resources available through its industry members, and an open forum that promotes collaboration and innovation.

There was also a brief discussion on organizations that could best use the RRI to support cross-domain interoperability, including NATO, FirstNet and USAID. Healthcare and Humanitarian Assistance/Disaster Response (HA/DR) are considered two global cross-domain targets, where the RRI could impact critical in real time. Advisory Council members were asked to facilitate promotion of the RRI and help NCOIC seize opportunities to address those challenges facing our world.

**Services Working Group Publishes MD3 Pattern**
The Multi-level Distributed Discovery and Dissemination (MD3) Pattern has been published on the NCOIC website by the Services Working Group. This pattern provides an approach for reliable data discovery and dissemination for a system, or systems of systems, working within the challenging and dynamic environment of a mobile ad hoc network (MANET). This pattern uses a distributed registry to enable Service Oriented Architecture (SOA) features such as loosely coupled services. It also improves stability and connectivity of the network through associated metadata modeling, processes and platform attributes. This pattern was developed for any application needing reliable data and service discovery in distribution networks such as disaster response communications and management. To review the pattern, go to
http://www.ncoic.org/10-technology/37-tech-prod-pattern-capability