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Global Information Grid (GIG) – A Net-Centric Presentation
By

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Good Morning, I am Mr. Al Newman Senior Staff Assistant to Dr. Ron Jost, the Acting Deputy Assistant Secretary of Defense for Space, Sensors, Spectrum and Communications, Command and Control in the Office of the Assistant Secretary of Defense (Networks and Information Integration). We are quite excited to have the opportunity to speak to you today about our efforts to implement the Department's Global Information Grid (GIG). The GIG is very much like the Internet with additional military requirements for Information Assurance. The GIG is a net-centric construct that provides information and data services and applications to all users. The Department has many of the same needs as Internet users: a ubiquitous, secure and robust network; bandwidth on demand; support and collaborative tool sets; access to all available information; continuously refreshed network assets, improved sensemaking. Some unique Department needs are: the ability to conduct offensive and defensive information operations; surprise others with information we are using and access to their information. All of these network attributes are familiar to Internet users and developers. It is our hope to leverage Industry experience to rapidly enhance GIG capabilities.

Our goals in implementing the GIG are threefold: Goal 1 is to build a trusted, dependable GIG network, Goal 2 is to populate the GIG with accessible, usable data, and Goal 3 is to protect the network from exploitation. Industry has much experience in developing products for the Internet that we believe can be transported to applications for the GIG. We encourage Industry's participation in the implementation of the GIG Net-Centric capability for the Department of Defense. The graphic provides insight into Department efforts to support the goals for the GIG. As indicated in the graphic, the Joint Tactical Radio System, the GIG Bandwidth Expansion effort and the Transformational Communications Architecture Satellite Communications Systems will allow the Department to reduce GIG bandwidth constraints. Net-Centric Services and Information Assurance efforts will allow employment of trusted services to users of the GIG. Lastly, Horizontal Fusion Portfolio efforts will develop Net-Centric tools to enable smart pull and fusion of data by GIG users.

We encourage Industry to participate in the GIG transport, Net-Centric services and applications development. Our GIG points of contact are the DOD Office of the Chief Information Officer and the Office of the Deputy Assistant Secretary of Defense for Programs in the Office of the Assistant Secretary Defense (Networks and Information Integration).

Key Net-Centric Initiatives

Eliminate Bandwidth Constraints	<p>Joint Tactical Radio System Provides IP-Based, self-managed, BLOS, mobile data and voice Communications services</p>
	<p>GIG Bandwidth Expansion Provides ubiquitous, secure, robust optical IP foundation network</p>
	<p>TCA SATCOM Incorporates mobile/tactical users and global intelligence links and EHF IP Links</p>
Deploy Trusted Services	<p>Net Centric Enterprise Services Provides information and data services to all GIG users</p>
	<p>Information Assurance Programs Enables trusted computer, networking, and data services to all GIG users.</p>
Improve Sensemaking	<p>Horizontal Fusion Portfolio Develops and provides net-centric means/tools to enable the smart pull and fusion of data by users through inter-related capability improvements.</p>