Understanding Supply Chain Risk Management
Leveraging digital commercial third party tools

Defining Our Commodities
Tracy Loper - Travel & Services Commodity Manager

Compliance Corner
Buyers’ Expectations - Important things to know

ISN By the Numbers 2018
See Our Accomplishments

ISN Technical Interchange Roadmap Events
A conversation with our CTO

Small Business, Big Contribution
Xiomi Baleno - Supply Chain Specialist, Small Business Program
Scotty Miller II
VP, Supply Chain Management

Have a great holiday and a very happy new year!
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About this publication: This is General Dynamics Mission Systems’ Innovation Sourcing Network, open supplier innovation ecosystem monthly newsletter.

Suppliers may submit articles to be considered for publication to: edgeinnovation@gd-ms.com
Contact: Toll Free (U.S.) 1-888-406-EDGE (3343) or Toll Free (Non-U.S.) 1-877-466-9467
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Our Proactive Supply Chain Risk Management Effort

General Dynamics Mission Systems’ Supply Chain Risk Management objective is to identify and reduce supply chain vulnerabilities. An integral part of our Supply Chain Risk Management program is our partnership with riskmethods. With the riskmethods solution, General Dynamics Mission Systems is able to secure our supply chain and protect our reputation by proactively identifying and addressing supply chain risk—including financial, compliance, natural disaster, man-made, geopolitical and cyber threats in our supply chain.

Monitoring Sub-Tier Suppliers with riskmethods

As relationships between members of supply networks become more tightly integrated, the reduction of supply risk is no longer an imperative that any single enterprise can manage top-down or in isolation. A united and ultimately collaborative engagement between trading partners is required. However, this new reality is confronted with a growing challenge to collect and manage the information necessary to profile, monitor and manage risk across the myriad of potential supply disruption and reputational risks. General Dynamics Mission Systems has launched an initiative with support from riskmethods to further its effort to improve the resilience of its supply ecosystem. General Dynamics Mission Systems’ Risk Management Program will be monitoring our supply base’s sub-tier suppliers. Your participation and partnership in this supply chain risk management program is a part of our everyday operations moving forward. Together we will be more efficient, reliable and ultimately more attractive to our customers.

What You Can Expect as a Supplier

General Dynamics Mission Systems is launching a pilot to a select number of suppliers in the first quarter of 2019; as a supplier this program will mean two things for you. First, the program will require you to establish a quantified inherent risk profile for your supply base and implement tools that will actively monitor your supply chain for emerging threats. With this information, you’ll be able to act more quickly if a risk event occurs. Second, the program will enable General Dynamics Mission Systems to gain visibility into unseen dependencies and choke points in our sub-tier supply chain via your sharing of relevant supply segments. Through participation in this program, you will make your own supply chain more robust and make yourself a more attractive trading partner, while also fulfilling new General Dynamics Mission Systems supplier requirements and complying with the risk requirements of industry standards such as ISO.
9001:2015 and AS9100D. We will be asking you to identify and provide at minimum your relevant tier-1 supplier names, ports, hubs, and supply paths directly to riskmethods or to our Supply Chain Risk Management team. Together, we will analyze the data with a different lens to ensure that our supply base is secure.

We need your partnership to ensure we collectively reduce all potential vulnerabilities throughout our supply base. The stakes are high, and we must be proactive and work together to deliver world class products and solutions that our customer, soldiers, sailors, airmen and Marines expect and deserve.

About riskmethods
As a market leader in supply chain risk management, riskmethods’ mission is to help you identify, assess and mitigate risk in your supply chain. Their SaaS solution helps companies of all sizes assure supply, maintain compliance and protect their revenue and reputation. To get a sneak peek of all the ways you’ll benefit from supply chain risk management, we invite you to visit the riskmethods website.

Contact Cindi at:
cindi.wong@gd-ms.com
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At DC19, you will join partners, customers and peers for three days where we’ll explore technologies and innovations designed to elevate cyber security.

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- Schedule one-on-one engagements with key decision makers and end-users

For more information or to request the DC19 Prospectus, please email DynamicConnections@gd-ms.com

GENERAL DYNAMICS
Mission Systems

www.GDDynamicConnections.com
Tim O’Malley
Adv Supply Chain Specialist

Tim works out of Scottsdale, AZ. He has been with the company since January 2018 but was with Gulfstream Aerospace from November 2012 to December 2017.

What led you to a career in Supply Chain Management?
Before pursuing a degree in business management, I tried a few majors but when I started business classes, they made sense to me. I pursued a degree in business management because my father worked in operations management and that sparked an interest in supply chain management.

Through General Dynamics companies, I have been given opportunities to pursue my career in supply chain management.

What has been your most rewarding experience at General Dynamics Mission Systems?
My most rewarding experience would have to have been when I visited the General Dynamics Taunton facility to meet my internal customers and the people in the programs that I am supporting.

In your opinion, why are relationships with suppliers so important to the Supply Chain Management mission?
Relationships with suppliers are so important to SCM because the quality of the relationship ensures the quality of the product and efficiency of the job.

With a good relationship you have open communication, can rely on your supplier to deliver on time without follow up, and have a mutually beneficial relationship to help both companies continue to grow and be successful.

What would people never guess that you do in your role?
Even though I am located at the Scottsdale facility, I mainly support the Taunton facility.

How do you contribute to achieving an integrated supply chain?
I coordinate with suppliers and internal customers to ensure that the needs of the programs I am supporting are met.

What motivates you?
I enjoy learning how the company runs from each perspective to better understand all processes. Understanding how processes work and being able to improve on them is what drives me to become better and more efficient.

How do you balance your career and personal life?
I make sure to set aside time each day to decompress. I enjoy reading, playing video games and spending quality time with my family.

A perfect day would be?
Relaxing on the beach with family, friends and a good book.
Our process to communicate our needs and technical opportunities with your organization. TechScout is critical to our supply chain process to source potential outside solutions. We need your innovative approaches to build partnerships to solve our customers’ greatest challenges.

Sign up to receive our alerts so that you can respond and share your innovative solutions with us.

Immediate Opportunities for Supplier Technical Solutions

- IT Hardware and Software
  - Automated Mission Planning
- IT Hardware and Software
  - Machine Learning
- Electro Mechanical
  - Neural Networking

Open Supplier Innovation Ecosystem
www.edge-innovation.com/techscouts.html
Tracy Loper
Travel & Services Commodity Manager

Defining Our Commodities

What categories of equipment, products or services make up your commodity? Please review the Travel & Services commodity equipment, products and services listed on the commodity chart provided on the next page.

How can a current supplier share updates with your team around product advances, new products or technologies? What kind of information do you want from a supplier and in what format? Current suppliers should share their technology roadmaps, product updates and capability data with the Innovation Sourcing Network (ISN) team who is organizing this information in our General Dynamics Mission Systems technology sourcing database. The ISN shares this information with our commodity, engineers, buyers and across commodity managers. We want and need to know about changes and updates, such as lead times, allocations, new equipment, new materials, new technologies and supplier personnel changes.

How often should our technical sales engineers engage with your commodity team? What’s the right cadence? Quarterly update meetings are ideal unless there is a significant change that we should know about immediately. Some of our suppliers conduct monthly technical sales briefings. These briefings provide great information to share with the ISN. You should also consider recording a Virtual Tech Ten Talk with our ISN team. The ISN team provides all the technology tools for you to conduct your talk from your desk. You don’t need to leave your office. Contact the Innovation Sourcing Network team via techscout@gd-ms.com to set up your recording appointment. Our technical team likes these bite-size conversations to learn what your new services or technologies.

Do you have an interest in our market outlooks, insights and lead times? How do these help your team? Who should a supplier send these to? Yes, General Dynamics Mission Systems is very interested in your insight on market trends, outlooks and lead times, and we appreciate your collaborative efforts to share this information. We need this information to ensure we can meet our commitments to our customers. The ISN is disseminating this information across our engineering, product development, capture and business development teams.

Should I work to build a relationship with other commodity teams? If the products and services your company provides support other commodity’s endeavors (see the chart in this issue), we highly encourage you to reach out to the other teams.

How does a new supplier get an opportunity to build a relationship with you and your team and quote opportunities? Our Innovation Sourcing Network is our first entry point for new suppliers. The ISN is our open supplier innovation ecosystem. Share your capabilities with the ISN, respond to a TechScout and record a Virtual Tech Ten Talk. These three ingredients help our team understand what your competencies are, and we begin to develop a relationship with your team that potentially will lead to teaming opportunities or quoting opportunities.

Contact Tracy at:
tracy.loper@gd-ms.com
### Commodity Managers

**Operational**

**Commodity Manager**
Matt Robertson

**Products**
- Active Attenuators
- Adhesives
- Air Circulators & Blower Eq.
- Asset Tools
- Bandpass filters
- Chemicals, Lubricants & Grease
- Chillers
- Compressors & Vacuum Pumps
- Controls
- Converters (RF) - Up and Down
- Electron Tubes
- Explosive Devices
- Fan & Fan Assemblies
- Furniture - Lab
- Generating Parts
- Generators
- Inspection Gages
- Inverters
- Isolators - RF
- Jacks
- Limiter - RF

**Mechanical**

**Commodity Managers**
Mark Reardon & Susan Carpenter

**Products**
- Actuating Levers
- Antenna Masts
- Arms
- Bearings
- Bellows
- Bolts
- Brackets
- Calibrated parts
- Cams
- Cases
- Casters
- Castings
- Chassis and Bases
- Container Hardware
- Custom Fabric Parts
- Custom Packaging
- Decals
- Disks
- Drive Belts
- Drums
- Enclosure parts
- Eyelets
- Fan Blades and Rollers
- Fasteners
- Fastening Parts
- Firing Pins
- Flat Mechanical Part
- Gaskets
- Gears
- Glass parts
- Grommets
- Heat Sinks
- Holding/Positioning Parts
- Insulating parts
- Joy Sticks (Custom)
- Keypad
- Membrane
- Labels
- Lanyards
- Lenses
- Links
- Machining
- Mechanical Clutches
- Mechanical Hardware
- Metals
- Nameplates
- Nuts
- Operating Control Parts

### Services

**Commodity Manager**
Tracy Loper

**Products**
- Commercial Services (Non-Product)
- Contract Labor
- Environmental Health and Safety
- Environmental Testing Facilities

**Commodity Managers**
Paula Shwab

**Products**
- Cameras
- Computer Hardware
- Hardware Services
- Keypad Assembly (Standard Offering)
- Networking
- Networking Switches

### IT HW and SW

**Commodity Manager**

**Products**
- Optical Transceiver
- Routers
- Servers
- Software
- Commodities
- Storage
- Video
**ELECTRO MECHANICAL**

**Commodity Manager**
Matt Robertson

**Products**
- Antennas
- Audio Equipment
- Batteries & chargers
- Bells and Buzzers
- Circuit Breakers
- Display Optics
- Earphones
- Handsets
- Headsets
- Indicating Parts
- Microphones
- Populated Racks (Enclosures)
- Power Dist.
- Relays
- Speakers
- Surge
- Suppressors
- Switches
- Transformers
- UPS

**COMPONENT ASSEMBLY**

**Commodity Manager**
Matt Maisano

**Products**
- Inductors
- LED
- Microcircuits
- PCB-Mounted: Amplifiers, Passive
- Attenuators, Passive filters, Transformers
- Populated Boards
- Resistors
- Semiconductors
- Substrate
- Tuners
- Tuning Cores

**BUSINESS PROCESS MGMT**

**Commodity Manager**
Stephanie Baker

**Products**
- Business Cards
- Mobile Devices
- Office Supplies
- P-Card Program

**INTERCONNECT**

**Commodity Manager**
Kevin Chapman

**Products**
- Headers
- Holders
- Slewing
- Sockets
- Terminals
- Wire

**TRAVEL**

**Commodity Manager**
Tracy Loper

**Products**
- Airlines
- Car Rental
- Hotel Event/Trade Show
- Support
- Ground Services (Airport Parking, Car Services)
- Hotels
- Travel Agency Services
- Travel booking
- Tech (Concur)
- Other
- Travel-Related Service

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gdmissionsystems.com/ISN
Make sure we are

the know about

your capabilities

and technologies

Virtual Tech Ten Talks

VTTTs

VTTTs are the conversation multiplier of your capabilities across General Dynamics Mission Systems.

Your talking brochure.

Schedule your recording time now - techscout@gd-ms.com
References for Help to Small Businesses for DoD Cybersecurity Requirements
Our Compliance team would like to provide the following resources for small businesses who are working toward becoming cyber compliant.

Manufacturing Extension Partnership (MEP) Cybersecurity Resources for Manufacturers
https://www.nist.gov/mep/cybersecurity-resources-manufacturers
The NIST MEP website includes free training on DFARS/800 -1 71 compliance, Cyber Risk Management and the NIST Cybersecurity Framework.

NISTIR 7621 Small Business Information Security: The Fundamentals
NIST Interagency/Internal Report (NISTIR) 7621 was developed as a reference guideline intended to present the fundamentals of a small business information security program in non-technical language.

NIST Cyber 101 Training
The NIST MEP program provides this free high-level overview describing the fundamentals of cybersecurity along with examples of why cybersecurity matters.

Cyber Security Evaluation Tool (CSET)
https://cset.inl.gov/SitePages/Home.aspx
Developed by the Department of Homeland Security, the free Cyber Security Evaluation Tool (CSET) provides the ability to create step-by-step assessment checklists for reviewing NIST SP 800-171 security controls. The website also includes training for how to use the tool effectively.

NIST SP 800 -171A, Assessing Security Requirements for Controlled Unclassified Information
https://csrc.nist.gov/publications/detail/sp/800-171a/final
NIST Publishing SP 800-171A is intended to help organizations develop assessment plans and conduct efficient, effective and cost-effective assessments of SP 800-171 security requirements.

Defense Industrial Base Cybersecurity Portal (DIBNet)
https://dibnet.dod.mil/portal/intranet/
DoD’s gateway for defense contractor cyber incident reporting and voluntary participation in DoD’s Cybersecurity Program

United States Computer and Emergency Readiness Team (US-CERT)
https://www.us-cert.gov/
The Nation's flagship cyber defense, incident response and operational integration center. US-CERT provides free updates and alerts on the latest cyber threats and vulnerabilities.

If you have any questions, please reach out to our compliance team.
Contact Yaseen at: yaseen.ali@gd-ms.com
BY THE NUMBERS 2018

Below are the 2018 stats on the outreach and ‘inreach’ for your supplier ecosystem. The Innovation Sourcing Network™ (ISN) is your conversation multiplier across General Dynamics Mission Systems about your capabilities and technology advancements and development.

- **43** TechScouts published
- **223** TechScouts responses submitted
- **83** TechScouts companies responded
- **2.3%** TechScout to Procurement (T2P)

**April 2018**
- ISN featured in Supply Chain Navigator magazine for Co-Creating the Art of the Possible

**May 2018**
- ISN a finalist for Gartner’s 2018 High-Tech Industrial Supply Chain Innovators - The Digital Supply Chain Transformation

**July 2018**
- ISN featured as Technology Matching Best Practice by Department of Navy SBIR in Transitions magazine

**October 2018**
- Rebranded website launches
ISN: How would you describe your responsibilities as CTO and key priorities?
My main responsibility is to help the company succeed, and the simple answer of “how” I do that is by encouraging my team to help in any way they can. Right now, there are so many ways we are making an impact finding and encouraging IRADs. We also identify and help teams win CRAD business and identify and brief technology trends. At the same time, we are always connecting teams that are working on similar problems, so we can work smarter not harder, and we always provide an honest assessment of our technical solutions. We pride ourselves on making sure we are always available to the entire workforce as a sounding board and offer advice if asked (and sometimes even when not asked). Two key areas I am focused on are helping the company more rapidly adopt technology from the commercial sector to our customers’ missions and encouraging investments that will help reduce uncertainty that creates perceived risk in trying new technology.

ISN: Scott, what are the key ingredients for a successful technical interchange roadmap discussion with our suppliers?
The two most important ingredients are follow-up and continuous engagement with our engineers. We have a diverse portfolio starting at five miles under the ocean and ending in deep space, with products and program everywhere in between. Follow-up, two-way conversations with engineers that represent relevant portions of our portfolio are critical and these need to be two-way. We, General Dynamics Mission Systems, need to share our roadmaps, gaps, and our customers problems with our suppliers and get their feedback. The days of handing “requirements” to suppliers and receiving quotes are behind us. We need to work collaboratively with our suppliers to solve our customer’s problem in a timely and cost effective manner.

ISN: What are the key takeaways you want our engineering team to get from these events?
Our engineering team needs a basic understanding of capability that the supplier can bring, to include where the future is headed. With that understanding, our engineers need the correct points of contact within the supplier’s organization for follow-up.
ISN: What elements do you want suppliers to leave with after engaging in a roadmap conversation with us? After engaging in conversation with our engineers, I hope our suppliers have a better understanding of problems that our customers face and how their capability can help us meet their needs. Our supplier should leave with points of contact into our company for follow-up conversations, continued discussions about pilot projects and shared development efforts.

About Scott Blanchard: Scott Blanchard is vice president and chief technology officer for General Dynamics Mission Systems, a business unit of General Dynamics. As the senior technical authority for the company, he fosters an environment of innovation across the global General Dynamics Mission Systems enterprise. Blanchard holds 40 U.S. patents for radio communications and network technology and is recognized for creating highly functional teams that solve the most challenging issues facing the company’s military and government customers.

Prior to his current assignment, Blanchard led a specialized team to reinvigorate radio and waveform development with an emphasis on survivability and rapid prototyping. The team achieved a greater than 10-fold improvement in productivity and delivery of new General Dynamics radio products and capabilities to customers. He also leads other fast-moving internal research and development projects, including artificial intelligence, augmented reality, distributed acoustic sensing and “cloudified” and advanced high-frequency technologies and holographic antennas.

Supplier Technical Interchange & Roadmap Events

How to be considered for a Supplier Technical Interchange Roadmap Event

Bring your team together to consider the following questions and the level of engagement you want to have.

1. Ask yourself are you willing to invest in delivering a ‘private tradeshow event’ to our team by coming to our location? If answer is yes move to questions 2-5 and submit your responses to Sheila Lucas by email.

2. Technical areas that you can educate our team about (like a menu we can choose from)

3. Dates you can bring your technical subject matter experts to our location(s)

4. Bios for your technical subject matter experts and their contact info

5. Picture photo your booth that you set up at a past industry/exhibit event

Contact Sheila at: Sheila.Lucas@gd-ms.com
Small Business, Big Contribution

Nov. 24, 2018, the Saturday after Thanksgiving, marked Small Business Saturday, a national holiday aimed at celebrating the importance of small businesses and their contributions to the local and global communities. Small businesses are vital to the health and well-being of our local communities, cities, states and our nation. Further, small businesses play a critical role in promoting economic growth, innovation and job creation. Key elements of a healthy economy include each tier of subcontracting that creates and comprises the products and services relied on by millions of end-users locally, nationally and throughout the world. Examples of the importance and scope of small business include:

- **Global Economy Contributions:**
  - Small businesses comprise 97 percent of United States’ exporters. These small business exporters stimulate competitive pricing for innovative products at a global level and minimize the chance of one business monopolizing any particular industry (SBA).

- **Local Economy Contributions:**
  - Small businesses typically reinvest their profits into the community including sponsorships toward local clubs and events, which support and strengthen the local economy.
  - Per a civics economic study in Grand Rapids, Michigan, 68 percent of the money invested in small businesses is reinvested in local economy, whereas only 43 percent of money spent on large businesses stays in the local economy.
• Economic Growth Contributions:
  - The United States has more than 30 million small businesses as of 2018. Together, these small businesses account for more than 50 percent of the nation’s gross domestic product.
  - Small businesses create jobs through expansion due to their need to hire additional resources and purchase products and services to meet their customers’ needs.
    - The employees of small businesses account for 58 million people, or 47.5 percent of United States employees (SBA).

• Diversity:
  - One of the most important aspects of small business is the diversity of businesses, their owners, and employees, which respond to the needs of an equally diverse consumer and end-user customer base. Business diversity categories include veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business and women-owned small business.

• Adaptability:
  - Small businesses are nimble and therefore well-suited to rapidly adjust to changes in the marketplace, changing technologies, industry requirements and standards, and the needs of consumers and customers.
  - As a large business, partnering with small businesses sharpens our competitive edge and allows GDMS to stay ahead in the ever-changing marketplace.
  - GDMS’ ability to rapidly create and adapt to changing requirements and needs of the business is built on our vision and mission to:
    - Reinvent the bounds of innovation to advance our customers’ missions.
    - Discover new ways to rapidly deliver a full spectrum of mission critical solutions by partnering with our customers, teammates, suppliers and communities.

General Dynamics Mission Systems consistently partners with small businesses to ensure we are best equipped to “relentlessly improve how we do business to deliver value to our customers and shareholders.” As a large business, we strive to utilize and mentor small businesses to create and deliver products and services among the best in the world.

Click here to access our small business resources.

Contact the Small Business Department SBLOs at: SmallBusiness@gd-ms.com
Cyber Security Safeguarding Covered Defence Information (CDI)

This requirement states that DoD contractors who process, store or transmit Covered Defense Information (CDI) on the contractor’s information system, must meet the security requirements. The only exception is for those contracts solely for the acquisition of commercially available off-the-shelf (COTS) items. This clause is a required flow-down for our suppliers.

Additional information for suppliers is available at: https://gdmissionsystems.com/about-us/suppliers/terms-and-conditions/cybersecurity-for-suppliers
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