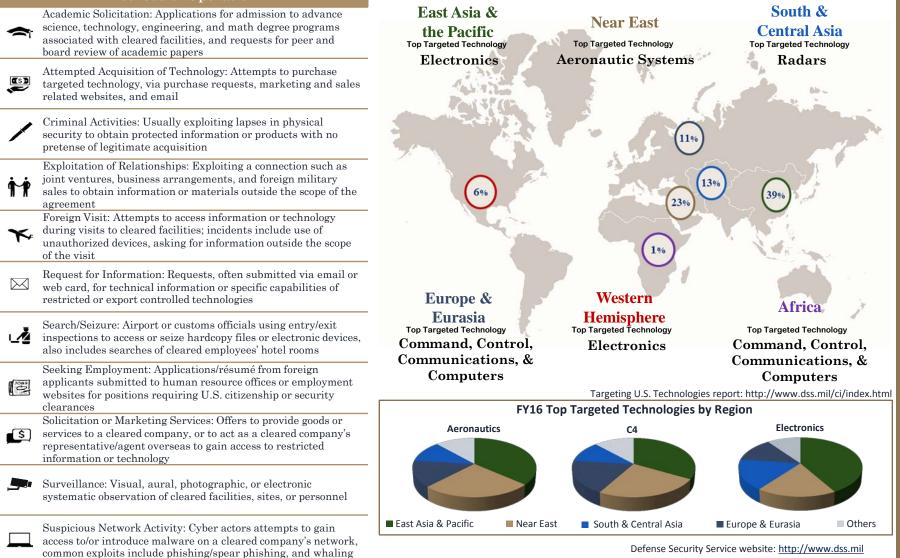


## 2017 DSS Trends: Focus on Technology

Based on reporting of foreign collection targeting cleared industry, fiscal year 2016

Facilities developing, applying, or modifying highly sought after technologies are at a higher risk from foreign collectors. These facilities must consider the volume and persistence of foreign collection when conducting risk management and risk mitigation.

## **Methods of Operation**



	Based on Cleared Industry Reporting o	f Foreign Collection			d Industry, Fiscal Year 2016 (Preliminary Data)
Targeted Technologies (in order of assessed threat targeting)		Top Targeting Regions		nods of ration Secondary	Methods of Operation Details and Likely Targets (Cyber domain is the most frequent vector for contact)
	Aeronautic Systems: Unmanned Aerial Systems Multirole & Cargo Aircraft, Enhanced Flight Vision Systems, Collision Avoidance Systems	East Asia & the Pacific		×.	Attempted Acquisition of Technology Target employees involved in business development/sales or management: senior management; business development; sales office; or web team Inquiries to purchase company or business units Attempts to acquire protected/controlled technologies Purchase of equipment, schematics, or plans
		Near East	×.	$\bowtie$	
	C4: Antenna, Digital Receivers, Microwave Filters, Cloud Computing, Airborne and Tactical Radios, SIGINT Systems	East Asia & the Pacific		$\bowtie$	
		Near East			
	Electronics: Radiation-hardened Integrated Circuits (ICs), Monolithic Microwave ICs, Gallium Nitride Amplifiers, RF Attenuators	East Asia & the Pacific		$\bowtie$	Academic Solicitation Target university, government, and private research facilities: admissions department; subject matter experts (SMEs); professors; or faculty members Applications for admission Requests for review of academic papers Requests to study/consult
		Near East			
0	Radars: Radars for Anti-Access/Area Denial (A2/AD), Phase Adaptive Radars, Electronically Steered Radars, Ground Penetrating Radars	East Asia & the Pacific		$\bowtie$	
		Near East			
ł	Armaments & Survivability: Missile Systems, Rail Gun, Mine Protected Vehicles, Mine Detectors, Hostile Fire Detector Systems	East Asia & the Pacific	$\bowtie$		Request for Information Target business development; sales; marketing; SMEs; web team • Under the guise of price quotes, marketing surveys, technical specifications • Telephone, web card, and email contact
		Near East		${\textstyle \boxtimes}$	
Ŋ	Optics: Fast Steering Mirrors, Night Vision Devices, Infrared Interference Filters, Thermal	East Asia & the Pacific			
	Imaging Cameras, Wide Area Optical Systems	Near East			
	Marine Systems: Autonomous Underwater Vehicles, Autonomous Surface Vehicles, Underwater Detection Technologies	East Asia & the Pacific			Solicitation or Marketing Services Target employees involved in business development/sales or management • Often unsolicited contacts with offer to represent U.S. company or goods • Offers to provide parts or assembly of U.S. company's products at overseas facility • Joint venture opportunities
		Near East			
ŧ	Energy Systems: Propulsion Systems (gas turbine engines, turbo fan engines), Gas Dynamics, Bipropellant Rocket Engines, Solid Oxide Fuel Cells	Near East		2085	
		East Asia & the Pacific		Υ.	
6	Software: Modeling and Simulation, Facial Recognition, Computer-aided Design (CAD), Wide Area Surveillance Materials: Raw & Processed: Composite Materials, Radar Absorbing Composites, Metallurgy Engineering, Piezoelectric Materials	East Asia & the Pacific			Seeking Employment Target human resource departments or security office • Attempts to introduce persons to cleared facilities to gain access to protected information • Résumés & Applications
		Near East			
く		Near East			
		East Asia & the Pacific			