














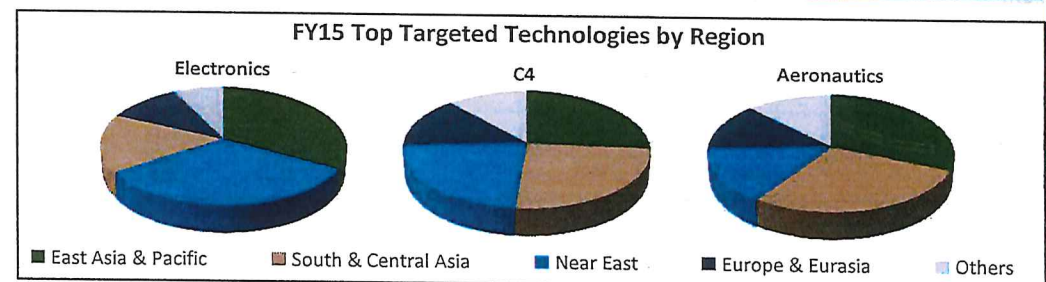
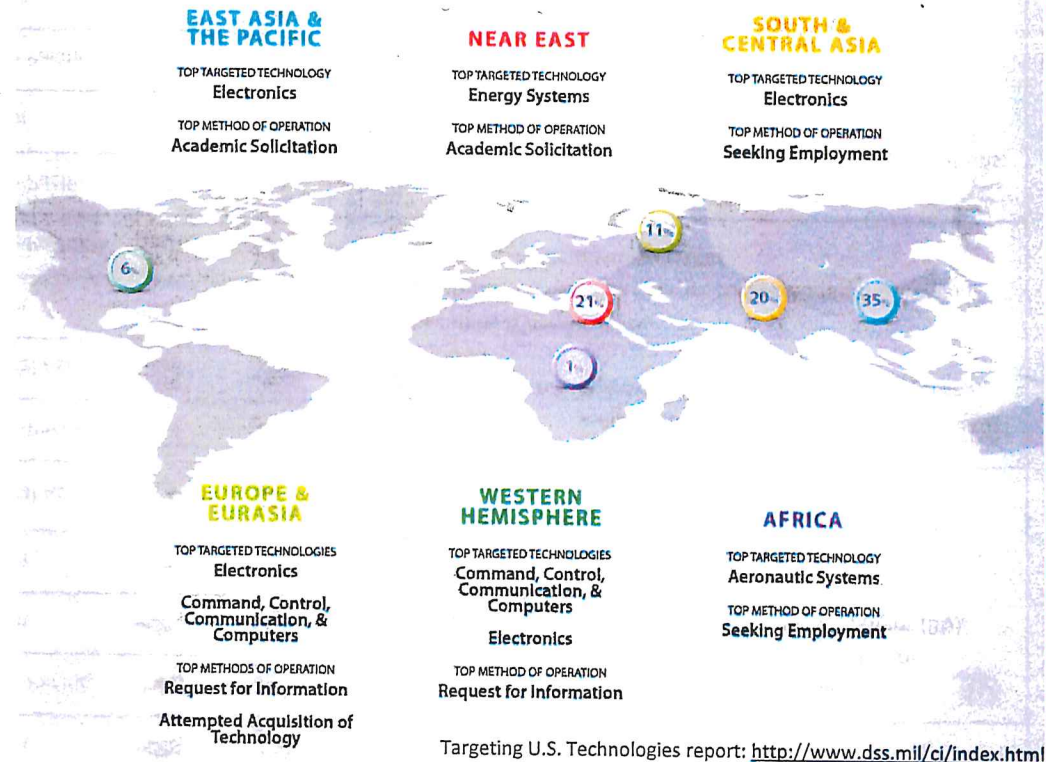
# Focus on Technology

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





















































-  **Academic Solicitation:** Applications for admission to advance science, technology, engineering, and math degree programs associated with cleared facilities, and requests for peer and board review of academic papers
-  **Attempted Acquisition of Technology:** Attempts to purchase targeted technology, via purchase requests, marketing and sales related websites, and email
-  **Criminal Activities:** Usually exploiting lapses in physical security to obtain protected information or products with no pretense of legitimate acquisition
-  **Exploitation of Relationships:** Exploiting a connection such as joint ventures, business arrangements, and foreign military sales to obtain information or materials outside the scope of the agreement
-  **Foreign Visit:** Attempts to access information or technology during visits to cleared facilities, incidents include use of unauthorized devices, asking for information outside the scope of the visit
-  **Request for Information:** Requests, often submitted via email or web card, for technical information or specific capabilities of restricted or export controlled technologies
-  **Search/Seizure:** Airport or customs officials using entry/exit inspections to access or seize hardcopy files, or electronic devices, also includes searches of cleared employees hotel rooms
-  **Seeking Employment:** Applications/résumé from foreign applicants submitted to human resource offices or employment websites for positions requiring U.S. citizenship or security clearances
-  **Solicitation or Marketing Services:** Offers to provide goods or services to a cleared company, or to act as a cleared company's representative/agent overseas to gain access to restricted information or technology
-  **Surveillance:** Visual, aural, photographic, or electronic systematic observation of a cleared facilities, sites, or personnel
-  **Suspicious Network Activity:** Cyber actors attempts to gain access to or introduce malware on a cleared company's network, common exploits include phishing/spear phishing, whaling

Based on reporting of foreign collection targeting cleared industry, fiscal year 2015



Defense Security Service website: <http://www.dss.mil>



Based on Cleared Industry Reporting of Foreign Collection Targeting Cleared Industry, Fiscal Year 2015				
Targeted Technologies (in order of precedence)	Top Targeting Regions	Methods of Operation		Methods of Operation Details and Likely Targets (Cyber domain is the most frequent vector for contact)
		Primary	Secondary	
 <b>Electronics:</b> Radiation-hardened ICs, Monolithic Microwave ICs, Gallium Nitride Amplifiers	East Asia & the Pacific			<b>Academic Solicitation</b>  Target university, government, and private research facilities: Admissions Department; Subject Matter Experts (SMEs); Professors or Faculty Members <ul style="list-style-type: none"> <li>• Applications for admission</li> <li>• Requests for review of academic papers</li> <li>• Requests to study/consult</li> </ul>
	South & Central Asia			
 <b>C4:</b> Antenna, Digital Receivers, Microwave Filters, Airborne and Tactical Radios, SIGINT Systems	East Asia & the Pacific			
	Near East			
 <b>Aeronautic Systems:</b> Unmanned Aerial Systems Enhanced Flight Vision Systems, Collision Avoidance Systems	East Asia & the Pacific			<b>Attempted Acquisition of Technology</b>  Target entities involved in business development/sales or management: Senior Management, Business Development (BD); Sales Office; Web Team <ul style="list-style-type: none"> <li>• Inquiries to purchase company or business units</li> <li>• Attempts to acquire protected/controlled technologies</li> <li>• Purchase of equipment, schematics, or plans</li> </ul>
	Near East			
 <b>Energy Systems:</b> Propulsion Systems (gas turbine engines, turbo fan engines), Gas Dynamics, Bipropellant Rocket Engines, Solid Oxide Fuel Cells	Near East			
	South & Central Asia			
 <b>Software:</b> Modeling and Simulation, Facial Recognition, Computer-aided Design (CAE), Wide Area Surveillance	East Asia & the Pacific			<b>Seeking Employment</b>  Target human resource departments: Human Resources; Security Office <ul style="list-style-type: none"> <li>• Resumes &amp; Applications</li> <li>• Attempts to introduce persons to cleared facilities to gain access to protected information</li> </ul>
	South & Central Asia			
 <b>Radars:</b> Radars for Anti-Access/Area Denial (A2/AD), Phase Adaptive Radars, Electronically Steered Radars, Ground Penetrating Radars	Near East			
	East Asia & the Pacific			
 <b>Optics:</b> Fast Steering Mirrors, Night Vision Devices, Infrared Interference Filters, Thermal Imaging Cameras, Wide Area Optical Systems	East Asia & the Pacific			<b>Foreign Visit</b>  Individual/offices hosting Foreign delegation visits: Public Relations; Security; Escorts; SMEs; BD; Sales <ul style="list-style-type: none"> <li>• Unauthorized photography or recording</li> <li>• Last minute changes to delegation</li> <li>• Engaging in discussion outside of scope of visit</li> <li>• Known or suspected intelligence officers</li> </ul>
	Near East			
 <b>Armaments &amp; Survivability:</b> Missile Systems, Rail Gun, Mine Protected Vehicles, Mine Detectors, Hostile Fire Detector Systems	East Asia & the Pacific			
	Near East			
 <b>Marine Systems:</b> Autonomous Underwater Vehicles, Autonomous Surface Vehicles, Underwater Detection Technologies	Near East			<b>Request for Information</b>  Direct request for protected information: BD; Sales; Marketing; SMEs; Web Team <ul style="list-style-type: none"> <li>• Under the guise of price quotes, marketing surveys, technical specifications</li> <li>• Telephone, web card, and email contact</li> </ul>
	East Asia & the Pacific			
 <b>Materials: Raw &amp; Processed:</b> Composite Materials, Radar Absorbing Composites, Metallurgy Engineering, Piezoelectric Materials	Near East			
	East Asia & the Pacific	