

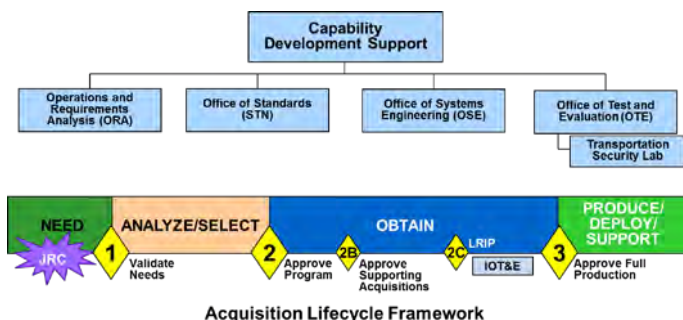
# DHS Science and Technology Directorate

## Capability Development Support improves Acquisitions

Enabling objective, data-driven decisions throughout the acquisition life cycle

### Capability Development Support (CDS)

Capability Development Support helps acquisition and R&D programs succeed. Throughout the acquisition life cycle, the four CDS divisions provide program managers and decision-makers the right data on time, to reduce risk and deliver enhanced capabilities to Homeland Security Operators in the most effective and efficient manner.



### Office of Operations and Requirements Analysis (ORA)

ORA gives the Directorate's dedicated support to the Joint Requirements Council (JRC). ORA identifies, coordinates, and assesses departmental capabilities brought before the JRC and recommends action plans to address key capability gaps across all seven JRC Portfolio Teams.

ORA analytical support to the Joint Assessment of Requirements (JAR) Process uses S&T's FY15 analytic method, as validated during development of the Joint Requirements and Integration Management System (JRIMS). Portfolio areas gain operational visualizations and analysis reports, functional and mission analyses, capabilities-based assessments, and prioritized shortfalls.

The JRC builds processes for operational capability gap collection and requirements validation and prioritization and shares resulting data with the IPTs, who inform the JRC of capability gaps requiring R&D. This united effort leverages expertise and reduces Components' reporting burden.

### Office of Standards (STN)

STN develops and promotes standards and their integration for consistency across DHS acquisition programs throughout the Homeland Security Enterprise and Homeland Security Industrial Base (HSE/HSIB). Coordinating through interagency, intra-agency, and voluntary consensus standard development technical committees, STN monitors and reports government-unique standards development and use, and participates in private sector standards bodies.

STN's diverse technological portfolio produces standards for radiation safety, explosives screening and detection instruments; and standard test objects and reference materials for evaluating image quality of mm-wave Advanced Imaging Technology (AIT), Computed Tomography (CT), X-ray inspection, and checkpoint trace detection.

### Office of Systems Engineering (OSE)

OSE helps programs develop and implement sound systems engineering throughout the acquisition life cycle. OSE also supports the Acquisition Review Board through independent Technical Assessments (TAs) of technical risks, to help programs and acquisition officials manage risks during development.

OSE TAs encompass five major technical risk factors:

- *Technical Maturity* - Feasibility of proposed technology/ies and systems for use
- *Technical Planning* - Adequacy and implementation of activities and associated artifacts to identify, manage, and mitigate technical risks throughout the program
- *Technical Analysis* - Adequacy and completeness of mission needs analysis, market research, analyses of alternatives, requirements decomposition, and trade-off analysis
- *IT/Software/Cyber* - Identification, management, and development of IT systems and security
- *Manufacturing Maturity* - Degree to which proposed technology/ies and/or products can be manufactured in volume to meet operational needs

### Office of Test and Evaluation (OTE)

The Director, Office of Test and Evaluation (DOT&E), is the senior advisor to the Secretary and Components on Test and Evaluation conducted by DHS major acquisitions, and is a member of the DHS Acquisition Review Board. Upon completion of operational test, the DOT&E provides Letters of Assessment (LOAs) to acquisition decision makers discussing the adequacy of test and the operational effectiveness, suitability, and cybersecurity of the system. The DOT&E also oversees the Transportation Security Laboratory to ensure testing and certification activities are conducted independently of the developing agency.



Homeland Security

Science and Technology

To learn more about Capability Development Support, contact Dr. Steven J. Hutchison, Director, at [steven.hutchison@hq.dhs.gov](mailto:steven.hutchison@hq.dhs.gov).