Weapons of Mass Destruction Elimination

INVESTMENT COMPONENT

- **Modernization**
- Recapitalization
- Maintenance

MISSION

To enable Weapons of Mass Destruction–Civil Support Teams (WMD–CSTs) to perform on-site analysis of unknown samples in support of first responders with a mobile laboratory. The system also provides voice and data communications to enhance assessment of and response to WMD events.

DESCRIPTION

Analytical Laboratory System (ALS) Increment 1 is a mobile analytical laboratory that provides the CST capabilities for detecting and identifying chemical, biological, or radiological contamination. ALS Increment 1 is a system enhancement program (SEP) to replace the current Mobile ALS and interim Dismounted Analytical Platform. It provides advanced technologies with enhanced sensitivity and selectivity in the detection and identification of biological and chemical warfare agents and toxic industrial chemicals and materials.

The Unified Command Suite (UCS) vehicle is a self-contained, stand-alone, C-130 air mobile communications platform that provides both voice and data communications capabilities to CST commanders. The UCS consists of a combination of commercial and existing government off-the-shelf communications equipment (both secure and non-secure data) to provide the full range of communications necessary to support the CST mission. It is the primary means of reach-back communications for the ALS for the CSTs and acts as a command and control hub to deliver a common operational picture for planning and fulfilling an incident response. It provides:

- Digital voice and data over satellite network
- Secure Internet Protocol Router Network (SIPRNET) and Non-Secure (NIPRNET)
- Radio remote and intercom with cross-banding
- Over-the-horizon communication interoperable interface with state emergency management and other military units

The Common Analytical Laboratory System (CALS) provides a common CBRNE analytical capability across multiple domain spaces. Developed in both a mobile platform (light) as well as a semi-fixed site platform (heavy), the CALS is a modular design that provides the necessary array of analytical, diagnostic, and investigative capabilities tailored for a specified mission or contingency operation.

SYSTEM INTERDEPENDENCIES

UCS

PROGRAM STATUS

ALS-1:

- **4QFY09:** Full operational capability

20th SUPCOM Light Lab:

- **4QFY09:** Full operational capability

PROJECTED ACTIVITIES

CALS:

- **1QFY10:** Materiel development decision

20th SUPCOM Heavy Lab:

- **4QFY10:** Full operational capability

ACQUISITION PHASE

Technology Development | Engineering & Manufacturing Development | **Production & Deployment** | Operations & Support

ALS
ANALYTICAL LABORATORY SYSTEM

UCS
UNIFIED COMMAND SUITE

Heavy Lab (20th SUPCOM)

Light Lab (20th SUPCOM)

FOREIGN MILITARY SALES
None

CONTRACTORS
ALS:
Wolf Coach, Inc., an L-3 Communications Company (Auburn, MA)
UCS Vehicle:
Wolf Coach, Inc., an L-3 Communications Company (Auburn, MA)
UCS Communications system integrator:
Naval Air Warfare Center Aircraft Division (Patuxent River, MD)
20th SUPCOM Heavy Lab:
ECBC (Edgewood, MD)