The U.S. military has a critical need for secure, encrypted, modern communications to help counter current and future threats. The Department of Defense and other U.S. Government agencies all require a modern, resilient, portable, intuitive, and ruggedized replacement for currently fielded cryptographic key loading devices. This new key loader must deliver high- and medium-assurance capabilities and meet National Security Agency (NSA) modernization standards.

To meet this need, CACI and its partners have created the Mission Crypto Loader (MCL). MCL is a smaller and lighter trusted mobile device than legacy key filled devices, and pairs improved power performance with a larger display. Using our human-centered design process, MCL features improved ergonomics and other human factor design considerations. MCL is also provisioned to support a detachable CSfC Black Network Interface Sleeve capability. Its one-handed operation and low size, weight, and power (SWaP) means a lighter burden and more performance for the user. MCL utilizes DS-101 and DS-102 protocols and can remotely fill end cryptographic units, load mission files, and provide software updates over the network.

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Features

- Capable of loading numerous end cryptographic units (ECUs), such as Thales MBITR, 148C, 148D, and Javelin; Trellisware Shadow and CUB; and Silbus Streamcaster and 1523
- Accelerated NSA certification (KOK-24)
- Field upgradeable
- Low carry weight of 2.95 lbs, including accessories
- Very compact for one-handed use – 6.7” x 3.25” x 2.2”
- State-of-the-art 20.9 watt-hour lithium ion slim form battery
- Battery life of 18 hours
- Advanced display provides 50,000 hours of LED lifespan with just .39 watts of power
- Rugged design features multiple 6061-T6 all-aluminum housings with interlocking enclosures
- Enhanced external interfaces, such as USB, ethernet, central index key (including Datakey Bar Series receptacle), and fill port
- Optional detachable CSfC-compliant Black Network interface

Benefits

- MCL design maturity delivers a device with multiple functional interfaces, reduced technical risk, and accelerated low-rate initial production delivery
- Expedited fielding ensures reduced obsolescence risk from legacy systems, reducing failure rates
- Improved usability and ergonomics ensure improved maintenance, logistics, and sustainability
- Maximized battery life and low SWaP provides a more capable and lighter key loader device

CACI’s MCL Team: A Record of Performance

CACI and the MCL team bring a record of past performance excellence to meet the needs of the key loader user community with confidence on an accelerated timeline. The team comes to the MCL effort with a report of technical and operational expertise gained through the delivery of more than 370,000 NSA Type 1 technology products over the past two decades, and direct involvement with NSA-certified fill devices for more than three decades. Our fully-staffed manufacturing lines produce high-quality, on-schedule, low-cost products that feature excellent performance and can surge to meet aggressive fielding targets.