Northrop Grumman’s BioSled represents a paradigm shift in biometric capture devices with the intent to set the standard for biometric capture hardware for the next generation of devices. BioSled is a standards-based, single form factor device that offers multi-modal biometric capture and onboard watchlist matching.

BioSled Overview
Originally an internal research and development exploration, BioSled is a lightweight, low-cost, Android™ based device that outperforms a number of larger, more expensive single-purpose devices. BioSled is designed for use in a tactical environment while still providing an affordable and flexible solution that fits many use cases worldwide. The customized form factor offers a rugged case around the host Android smartphone, and strategically positions the Sherlock fingerprint sensor and IriShield™ binocular iris camera for fast and easy biometric capture. Northrop Grumman’s BioSled packs extended battery power for the mission and utilizes Northrop Grumman’s high-performance biometric mobility software to achieve standards-based data capture.

BioSled Components
The Integrated Biometrics Sherlock is an FBI Appendix-F certified, FAP 45 fingerprint scanner capable of capturing both rolled and flat fingerprints. IriTech’s IriShield™ provides SAP 30 compliant iris scans and is capable of capturing both irises simultaneously. The Samsung Galaxy S®5 Android smartphone at the core of the BioSled provides several native tools, such as the built-in GPS for collecting location data, and a SAP 52 compliant, 16 mega-pixel camera for capture of facial images and other data pertinent to the mission, such as scars, marks, tattoos, or situational photographs.
Biometric Mobility Application

BioSled comes loaded with Northrop Grumman’s Biometric Mobility application, which includes the Automated Biometric Enrollment Workflow to lead the user through collection of the subject’s demographic and biometric data, as well as any required contextual information. The workflow is mission configurable, and the biometric enrollment generated is based on the Electronic Biometric Transmission Specification (EBTS).

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