SCALABLE, CROSS-PLATFORM SOLUTION FOR NEAR REAL-TIME IMAGE PROCESSING, SCREENING, & PRODUCT DISTRIBUTION

SDL provides the Distributed Common Ground System (DCGS) community with a powerful image processing, screening, and product distribution solution by combining a ground station with the VANTAGE™ tactical intelligence software suite and the Sky Lynx data link interface hardware. This system’s cost-effectiveness is achieved through the use of flexible and robust hardware configurations that enable the customer to scale the system to their DCGS program needs.

SDL’s solution supports many of DCGS’s tactical sensor systems, including the U-2 (SYERS, ASARS), Global Hawk, Littoral Surveillance Radar System (LSRS), and Advanced Tactical Air Reconnaissance System (ATARS). The advantage of SDL’s solution over other ground station solutions is the ability of the VANTAGE™ software to rapidly process, store, screen, and distribute numerous live sensor streams from multi-INT sources, including single- and multi-band electro-optical/infrared (EO/IR), synthetic aperture radar (SAR), hyperspectral (HSI) and multispectral (MSI), full-motion video (FMV), and moving target indicator (MTI). The system can be controlled locally or through a remote management interface. While feature rich, the VANTAGE™ software suite is also free for Government use with no licensing fees.

FEATURES

- Real-time link status
- Image product compatibility with software packages that support NITF 2.1 compliant imagery (Examples: RemoteView, SOCET GXP, ARCGIS, ERDAS, ENVI)
- Archival of both raw & processed data
- Standards-based data products (NITF 2.1, MISB, & STANAG 4575, 4604, 4609)
- Interoperability with other DCGS systems
- Broad tactical / national access

SDL’s powerful image processing, screening, and distribution solution can provide single or multi-mission support.
SCALABLE HARDWARE CONFIGURATION
- SDL’s 1U Sky Lynx data link interface unit(s) with signal verification, simulation, & troubleshooting capabilities
- Customizable storage volumes with best-in-class throughput & high level of redundancy & fault-tolerance
- Customizable load-balanced server architecture
- Customizable client workstation(s)

POWERFUL VANTAGE™ SOFTWARE
- Real-time data acquisition & data display
- Image exploitation such as histogram and mensuration tools
- Situational awareness with visual cues for image information
- Motion Industry Standards Profile (MISP) v5.1 compliant handling of full-motion video
- Ability for multiple clients to connect and screen data simultaneously from a local system or network-connected computer
- Integrated DCGS Integrated Backbone (DIB) interface for rapid data dissemination
- Produces NITF 2.1-compliant products
- Cross platform (Windows®, Solaris® 10, LINUX®)
- Government off-the-shelf (GOTS) solution