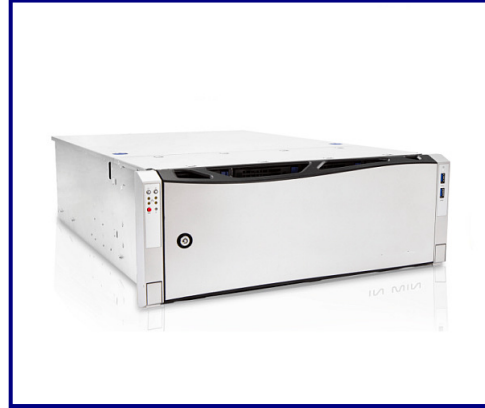# Secure Avionics Data Loading Server (SADLS)

Secure Avionics Data Loading Server (SADLS)

e-Enabled Secure Data Loading System for Configuration Managed ARINC 615 / ARINC 615A Data Loading of Avionic LRUs / LRMs in Avionics Laboratory and Shop Environments in Support of Development, Test and Integration.

The Guardian Secure Series ™ Secure Avionics Data Loading Server (SADLS) is a secure ARINC 615 and/or ARINC 615A data loading solution for development-, test- and integration-function avionic workbenches, test cells and laboratories. The SADLS operates under the modern standards for software cyber security and continued airworthiness now imposed on avionic software maintenance on e-enabled Next-Generation aircraft.

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>>> Secure Data Loading Solution - Security for avionics laboratories / test benches for Loadable Software Part (LSP) maintenance and part configuration.
>>> Control and Manage Software – Configure and manage software for avionic target developments for Next-Gen e-Enabled aircraft, avionics upgrades and retrofits.
>>> Available in 4U, 2U and cube form-factors
>>> Modern Data Loading Solution - Eliminate drawbacks of using traditional flightline GSE Portable Data Loaders not purposed-designed for lab use applications in the e-Enabled and secure aircraft era.
>>> Scaleable Solution - from individual test benches to data loading management of linked and networked avionic development lab operations around the world, a scaleable solution grows with your program needs.

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The SADLS is ideal for facilities that require centralized management of data loading operations. With the tool avionic target LRU/LRMs software configurations are pre-managed by the administrator(s). The SADLS provides up to the moment target as-loaded configuration statusing of all serviced LRU / LRM targets thus the as-loaded configuration of test stations / test stands is available in a report format. Software and configuration reporting is managed with the same security techniques as used in modern e-enabled aircraft.

Core Feature Set:

- *Scaleable Shop Data Loading Solution for all ARINC Data Loading Protocols*
- *Software Part Management and Configuration Reporting by Administrator(s)*
- *Aircraft Software Part Security and Integrity Checking*
- *Fixed solutions support ATE and test executives*
- *Mobile solutions support roaming ad-hoc use by individual users*
- *Network access at a workbench, facility or networked multi-facility level*

INNOVATION   SUPPORT   SERVICE

The SADLS supports a wide variety of use applications in diverse avionic lab environments. The Server can be integrated into test stands and workbenches for automated data loading operations, both by test executive in association with Automatic Test Equipment (ATE) or by ad-hoc data loading operations, performed manually by lab personnel.   Wireless operation supports mobile roaming data loading operations by lab staff users who must support a variety of test benches throughout a facility.

Secure Avionics Data Loading Server (SADLS) Details

- Secure Avionic Lab / Shop Data Loading Tool for ARINC 615 (-2/-3/-4) and ARINC 615A (-2/-3/-4) avionics data loading.
- Provides Avionic Software Part Management (ASPM) and Electronic Library Storage (ELS) for digital security of ARINC 665 LSAPS & LSPs and ARINC 615 / ARINC 603 legacy MSPs.
- Easy adoption to proprietary/legacy and COTS Automatic Test Equipment (ATE) test executives for secure automated data loading (SADL) in test bench installations and test sells in avionics laboratories.
- Windows or LINUX configuration versions available
- Available in 4U, 2U 19" rack server-style and Cube Micro PC form-factors
- Continuous Electronic Configuration Reporting (CECR) provides immediate loaded configuration status of laboratory-managed systems and individual targets under test.
- Secure backup and history - automatic backup of avionic software part library and as-loaded avionics target configuration history is performed continuously.
- Fully scalable solution – the SADLS system can support single dedicated workbench operations or can be scaled up to support multiple test benches in networked integrated avionics labs in multiple locations around the world.
- Compliant solution per requirements of standards for software cyber security and continued airworthiness for e-enabled aircraft as per DO-326 and ED-202.
- Ideal for Next-Generation avionics development, test and integration laboratories; Implements modern ARINC avionic software data loading solutions per ARINC 645 and ARINC 667.
- Eliminates drawbacks of using traditional flightline GSE Portable Data Loaders not purposed-designed for lab use.

Additional Product Features:

- Legacy support for LSP/MSPs stored on media: floppy disk, CD, DVD, compact flash and PCMCIA
- Optional emulators for data loading of: RS-232 and avionic linear memory/compact flash
- FADEC 2 and FADEC 3 Software for CFM-56/LEAP
- Integrity Test function for avionics
- Support for avionic software data loading of linear memory and compact flash (with optional accessory emulators)

Target Secure Avionics Data Loading Server (SADLS) Users:

- Development, Test and Integration Labs – at Airframe Manufacturers, Avionics Suppliers, Integrators
- Multi-location Networked Development Facilities - next door or around the world
- Military Avionics Workshop Facilities (that require a high level of LRU/LRM software part security)
- Stand-alone or Centrally Managed MRO / FBO Hanger and Avionics Repair Facilities

Order Details

Windows 4U Server Part No:	SADLS – 411 – 351 – 001
Windows 2U Server Part No:	SADLS – 411 – 352 – 001
Windows 2U Server Part No:	SADLS – 411 – 354 – 001
LINUX 4U Server Part No:	SADLS – 411 – 362 – 001
LINUX 2U Server Part No:	SADLS – 411 – 363 – 001
LINUX 2U Server Part No:	SADLS – 411 – 364 – 001

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