

## **LAND DEPLOYABLE GATEWAY (LDG)**

*Securely connecting you to the information you need*

**Tap Into An Integrated  
National And Coalition Force Network**



The Land Deployable Gateway (LDG) provides a single point of connection for application interoperability between the battlefield and other national or coalition systems in the same security domain.

LDG encapsulates all the capability delivered to operations in Afghanistan from 2010 onwards, including the latest version, BCIP VM, plus the capability of the extant Multilateral Interoperability Program (MIP).

**Interoperable:** Seamlessly access and exchange a range of information released from the battlefield via common interfaces and protocols, while also consuming services from other operational systems using built in data translation and processing.

**Secure:** Safely connect and control data from the tactical edge to Headquarters and beyond using advanced firewall technology that protects and defends mission critical information.

**Mobile:** Connect to the right people wherever you go with compact portable LDG cases for flexibility in any environment.

**Adaptable:** For ease of integration with other C4I systems, LDG has been developed using COTS hardware providing standard Ethernet interfaces.

## Features:

### Services

The gateway services hosted on the LDG all run in a virtualised environment, these services can be enabled or disabled based on mission requirements. Standard configurations for different scenarios can be rapidly deployed from a user defined catalogue.

- Tracks - NFFI v1.3" to "FFI/NFFI IP1 and IP2
- Email - ESMTP, MIP MEM, AdatP3 (multiple baselines)
- Chat - XMPP
- Web Map Services (WMS) proxy
- Symbology (kml, kmz, nvg1.4, ESRI shp, gpx, APP-6(A) & APP-6(D))
- MIP Block 2, 3 and 3.1

### Application Access

- Web browsing to the external system

### Security

LDG provides tight control of access between system boundaries, as well as anti-virus checking on traffic passing between systems. Also includes a separate router to enable routing between networks that do not need the tight control of the firewall.

- Forcepoint N2101 Next Generation Firewall

## Hardware Specification:

### Virtual Machine Hosting Environment

- 2 x DELL R630 1U server
- 2 x Intel Xeon E5-2660v3 2.6 Ghz
- 128Gb ECC RAM
- 4 x 1Tb RAID10 OPAL SED HDD storage
- VMWare Vsphere ESXi Hypervisor 6.0

### Laptops

- 3 x Getac S400
- Windows 8.1 Enterprise, Vsphere Client, Forcepoint Security Management Centre and Client

### UPS

- Eaton 9SX300IR UPS

### Router

- Cisco 2901

## Physical Specifications:

LDG is delivered in three separate rugged transit cases, with a portable case for laptops and ancillaries. These three cases provide a greater degree of flexibility to decide how much resilience is required for a mission.

### Case A - 4U Gateway Host Environment

- Weight - 50Kg
- 550W x 450H x 800D mm

### Case B - 4U Gateway Firewall and Router

- Weight - 50Kg
- 550W x 450H x 800D mm

### Case C - 2U UPS

- Weight - 50Kg
- 550W x 250H x 800D mm

## Additional Case for Laptops and Ancillaries

### Power:

- Input using UPS - 230V AC
- Input direct to Case A and Case B - 230V AC
- Power consumption maximum/typical - 1700W/700W