

# Generic Discovery Server (GDS)

*Enabling Dynamic Discovery of Encryption Devices*



Dynamic HAIPE® Discovery

Simplified INE Integration & Configuration

Increased Network Efficiency

Optimal Routing and Redundancy

## Overview

The Generic Discovery Server (GDS) is a software application that simplifies the configuration process and increases the efficiency of High Assurance IP Encryptors (HAIPE). HAIPE devices can be configured to automatically register with the GDS, making it ideal for large networks and mobile devices. This enables the HAIPE Inline Network Encryptor (INE) to dynamically locate other INEs and route traffic via optimal paths.

## Features at a Glance:

- Intuitive User Interface for Server Configuration
- Storage for Over 40,000 Network & Device Addresses
- Server to Server Generic Discovery
- Supports both IPv4 and IPv6
- Interoperable with GEM X™ and GEM X Lite Encryptor Management Software
- Supports Windows® Operating Systems

## GDS Allows You To:

- Create either a mesh or hub and spoke network of servers
- Interface to BGP routers for updating routes
- Create default routes
- Assign a preference to separate routes to the same protected IP network
- Configure the ports used to listen for HAIPE messages
- Automatically alert GEM X™ and GEM X Lite workstations of newly registered encryptors
- Display, sort, and search a list of HAIPEs that have registered with the GDS
- Locally or remotely add, delete, or update network prefixes
- Display, sort, delete, search, export and import network prefixes
- Assign an expiration date to network prefixes
- Automatically remove expired network prefixes from its database
- Display, sort, search and export an event log

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## Technical Specifications

### PC/Windows Configuration

- PC with processor speed of 2.13 Ghz
- PC with Windows 7, Server 2008 and Server 2012 64bit OS
- PC with Java v1.7 or v 1.8, Java Cryptography Extension Unlimited Strength Policy Files
- 4GB RAM
- CD drive for installing GDS software
- CD-RW, disk or tape drive for archives and backups

### COTS Software Installed by GEM X

- PostgreSQL v9.4.6
- SNMP4J and SNMP4JAgent

### Fronting Encryptor

- TACLANE® R3.5 or higher fronting IP networks

### Communication Protocols

- UDP
- SNMP v3 (Agent communication)
- TCP
- SNMPv1 (GEM X communication)
- TLS v1.0

### Interoperability with Encryption Devices

- Supports HAIPE Generic Discovery Client version 3.1.2 or higher
- TACLANE INEs Release 3.5 or higher
- Any other Generic Discovery Client Enabled HAIPE

### Classification Level

- Software and documentation are unclassified
- Can communicate with encryptors at all levels through TS/SCI
- A GDS workstation is considered classified to the same level as the network on which it operates

## Future Enhancements

- Linux Support

### GEM X Interoperability

The GDS discovery functionality combined with the GEM X Encryptor Manager provides encryptor users and administrators a cost-effective solution for controlling and optimizing their secure network. Once a new HAIPE device is registered in the GDS database, GDS automatically alerts GEM X of the new device and commands GEM X to discover and start managing the device.

Both GEM X and GDS can be hosted on one single workstation which can simplify network administration and eliminate costs associated with equipment purchases such as workstations and fronting encryption devices.

### Managers

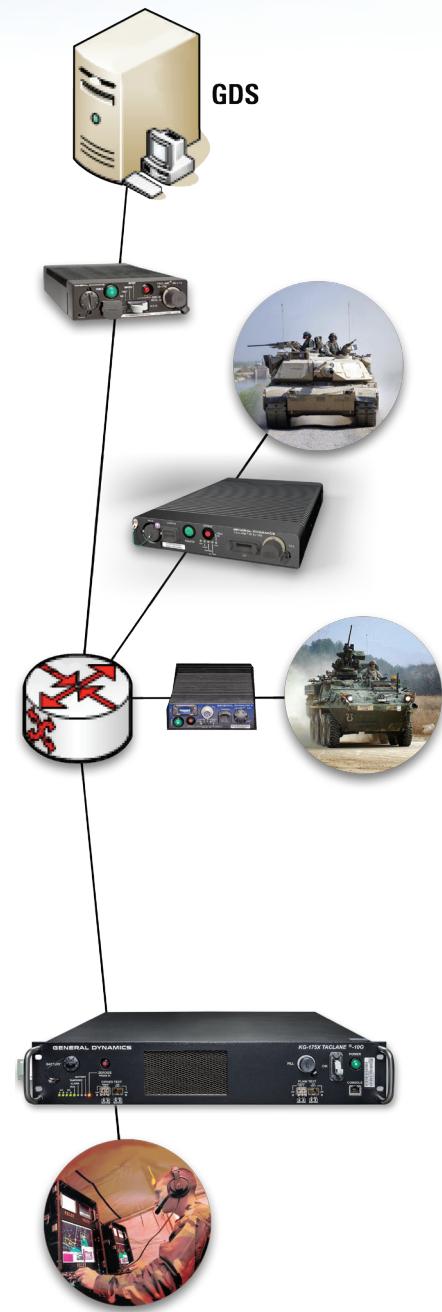
- GEM XR3.5 or Higher
- GEM X Lite R3.5 or higher

### Availability and Price:

The GDS is available as a standard product which can be used with GEM X Lite, or bundled with the GEM X Universal Encryptor Manager.

GDS - \$4,950

GEM X with GDS - \$9,850



*The GDS enables HAIPE devices to locate other registered HAIPE devices on the network, automating configuration and providing redundant routes.*

## GENERAL DYNAMICS

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