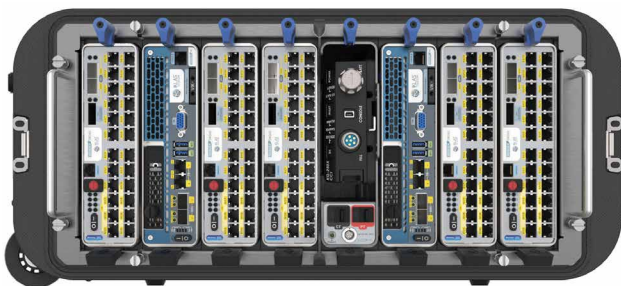# VOYAGER/VMES

VIRTUAL MULTI-ENCLAVE SYSTEM

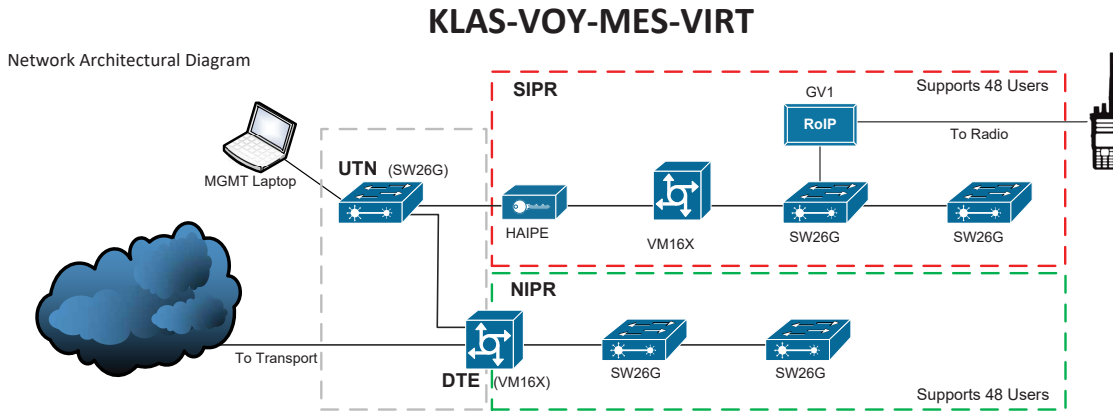Integrated | Virtualized | Compatible | Transportable

The Voyager Virtual Multi-Enclave System (VMES) integrates virtualized routing, switching and compute capabilities into a single, power distribution system that supports multiple enclaves, in any environment.
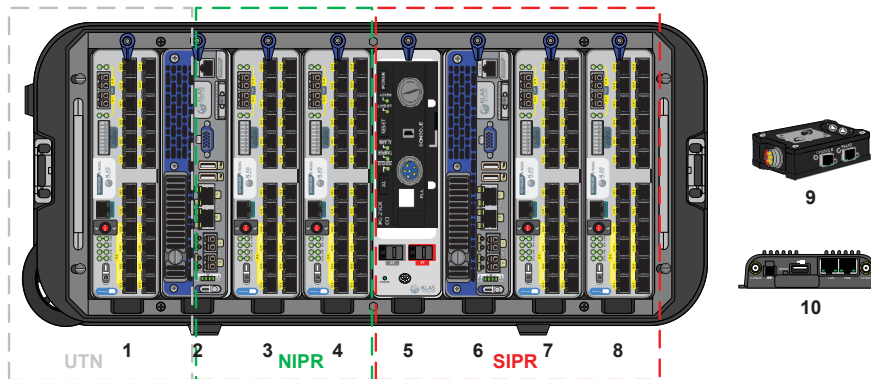
Features

- Ruggedized, light weight, and low power consumption
- Transportable in a "roll on/roll off" form factor
- Rack-mountable onto a vehicle, aircraft or ship
- Gigabit switch supports for up to 120 devices to be distributed among enclaves as needed
- Voyager Ignition Key (VIK) simplifies provisioning, PACE, and maximizing storage
- Compute modules support a wide range of software to include VMware ESXi, Cisco CSR 1000v, Cisco ASAv, Riverbed Steelhead, Palo Alto, and more
- Radio over IP (RoIP) integration for a wide range of radios
- Gigabit-Class LTE connectivity
- Includes:
    - Voyager 8 Chassis x 1
    - VoyagerSW26G with Voyager 1 chassis x 4
    - VoyagerSW26G x 1
    - VoyagerVM x 2
    - VoyagerHAIPE x 1
    - Voyager Transit Case x 1
    - CISTECH GV1-2010 x 1
    - Cradlepoint IBR900 x 1

Klas Government makes the world's most powerful and reliable technology in its field. It works where nothing else will. It is the best-made, best value technology for the extreme, tactical edge of the network.

Diagram

KLAS-VOY-MES-VIRT

Network Architectural Diagram

Module Layout

LEGEND	
Slot	**Description**
1	VoyagerSW26G
2	VoyagerVM16X
3	VoyagerSW26G
4	VoyagerSW26G
5	VoyagerHAIPE w/ KG-250X
6	VoyagerVM16X
7	VoyagerSW26G
8	VoyagerSW26G
9	CISTECH GV1-2010-D1A-R
10	Cradlepoint IBR900

Specifications

Voyager 8 Case:

- 22.5'W x 14.2' D x 10.1' H
- 71.5 lb.
- VoyagerSW26G:
    - Cisco ESS 3300 switch to provide 24 x 1GB Ethernet ports with 8 PoE+ and 2 x 10GB SFP+ uplink ports, removable 4GB VIK
- VoyagerVM:
    - Intel® Xeon® Processor D-1577 16-core, 96GB RAM, removable 8TB SATA SSD, removable 512GB NVMe VIK+, 2 x 10GB SFP+ ports, 2 x 1GB Ethernet ports
    - Manage through BIOS, CLI over console, and IPMI
- Voyager 1:
    - 75 Wh of battery backup providing up to 3 hours of power (including PoE) for Voyager modules or ViaSat KG-250X, ViaSat KG-250XS, TACLANE-Nano KG-175N, SecNet 54, KG-175D and Mini-Catapan
- VoyagerHAIPE:
    - Integrated power supply for a KG-250X HAIPE device.

Transit Case:

- 13.75" W x 22.17" D x 8.96" H
- 13.3 lbs.
- CISTECH GV1-2010- D1A-R:
    - 2 x 10/100/1000 Ethernet ports with one PoE, 1 x LMR port, 1 x Handset port
    - Supports CODECs: G.711, G.726, G729, Linear PCM, ILBC, DVI4, Speex, SILK, OPUS, AMR-NB, and Dynamic Payload Mapping
- Cradlepoint IBR900:
    - Dual-Band, 802.11 a/b/g/n/ac wave 2—MU-MIMO and 256 QAM support, 2 x SIM slots, 2 x 10/100/1000 Ethernet ports