



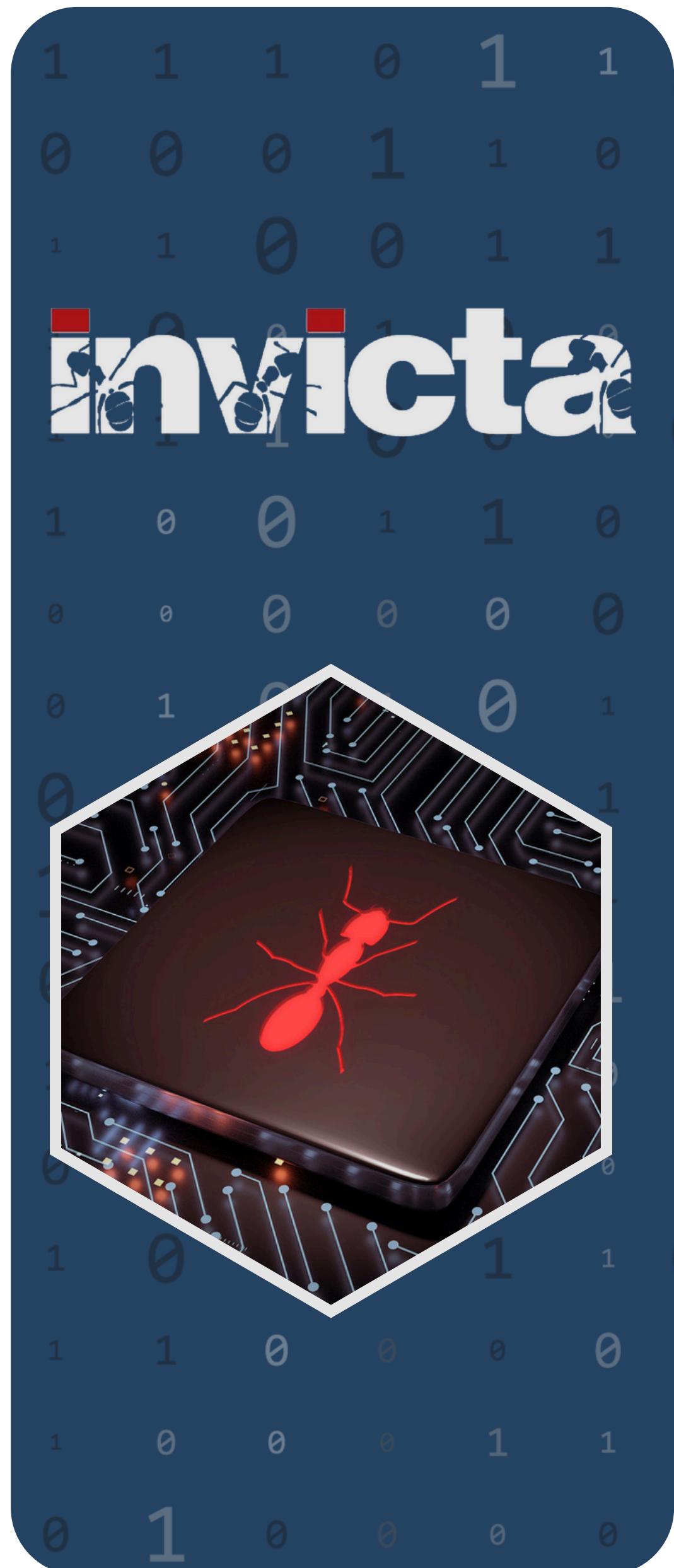
Virtual Air Gap (SAHAB)

*Information Exchange Gateway
Cross Domain Solution*

Security Shield



*Bidirectional Communication
Firewall and Diode Functionalities
... and Much More*



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aselSan

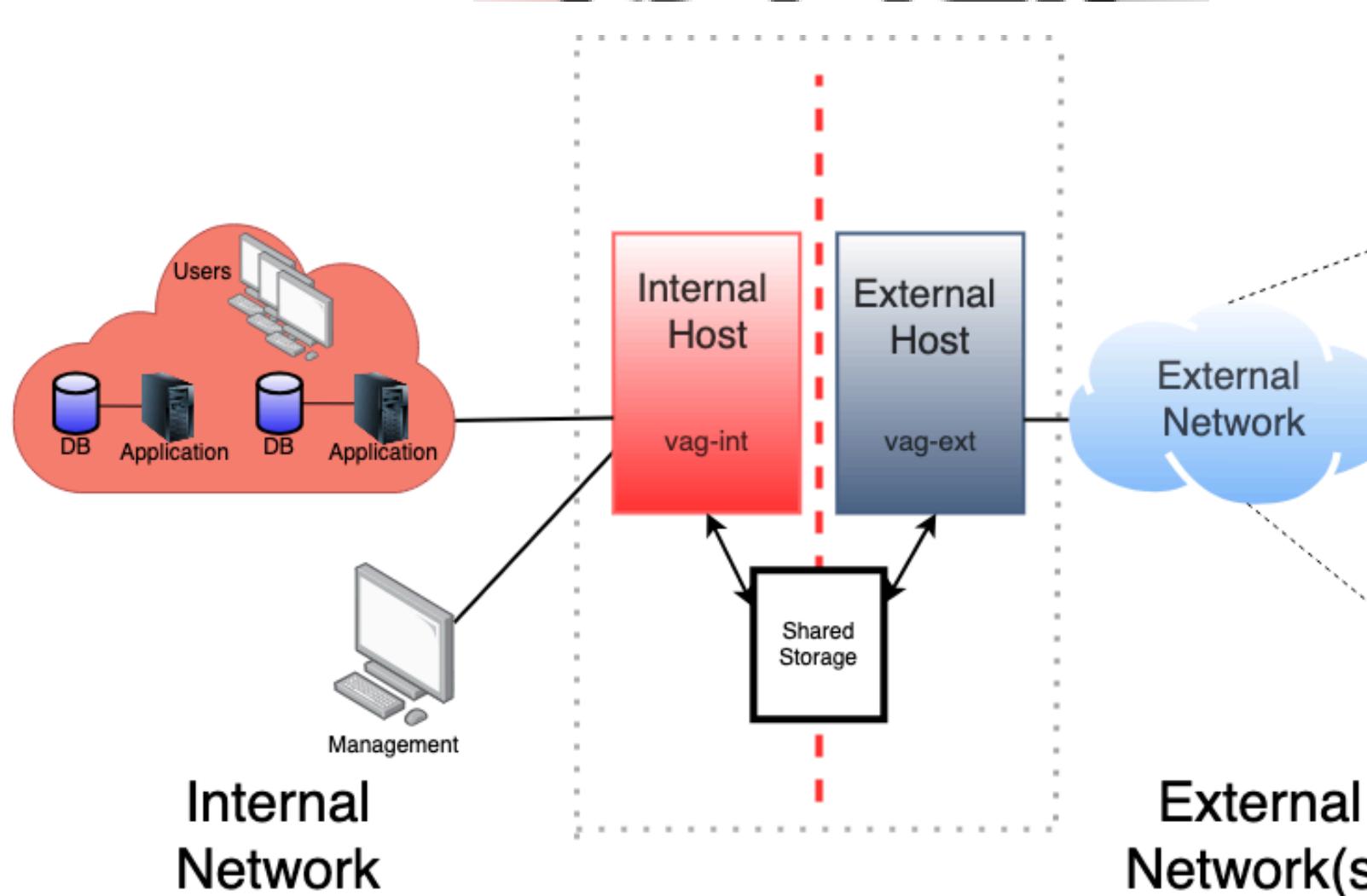
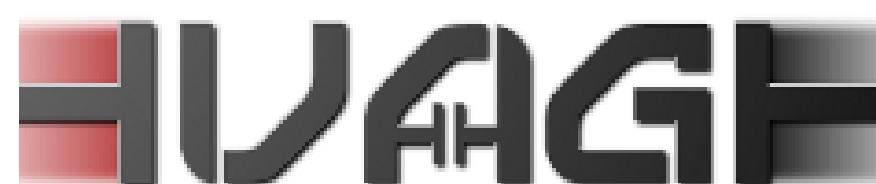


TAI



HARDWARE

- 2 x 1U COTS Server
- PCI-e Shared Memory
- Ethernet (1G, 10G)



SOFTWARE

- *Invictus*
 - *Debian Linux*
 - *Customized and Hardened*
 - *Protocol-Based Proxy Components*
- Internal Security Components
 - *IPtables, Suricata, HIDS, Malware Control, L7 App FW*
- EAL4+

PERFORMANCE

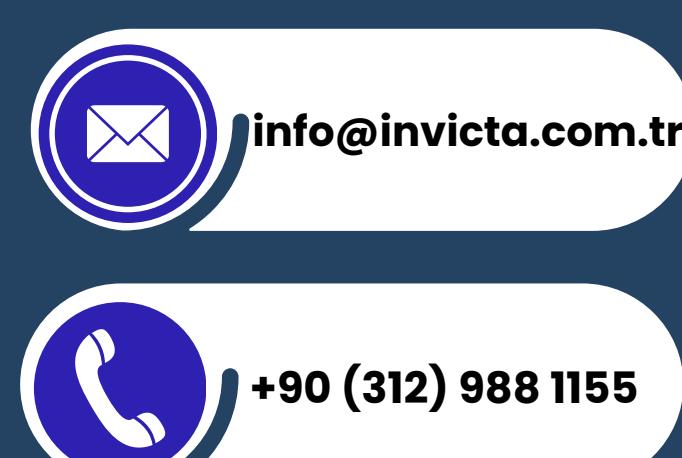
- Bandwidth
 - **7,5 Gbps**
- Latency
 - **0.1 ms**

ARCHITECTURE

- Two Separate Hosts
 - Dual-guarded security zone
- TCP/UDP/IP communication
 - *is terminated, no direct end-to-end connectivity!*
- Air Gap
- Inter-host communication
 - *Proprietary, Encrypted, and Signed*

INTEGRATION

- **VEGS**
 - Data inspection via security labels (XML Security Label)
- **E-SBSL**
 - User and server-based communication control



DATA LABELING SECURITY SYSTEM

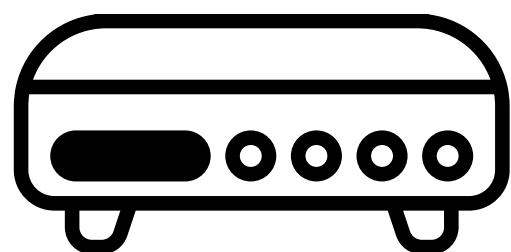
- XML Security Labels
 - **NATO ADAT-P 4474, 4778**
 - "Cosmic Top Secret", "Top Secret", "Secret", "Restricted", ...
 - *Defining security clearance/levels*
- *Label your data !*
 - *Ensure data reaches authorized endpoints!*



- Microservice Architecture
 - *Labeling Library*
 - *API-based Access*
 - *Data Labeling*
 - *Inspection/Auditing via VAG*
- *User Management*
 - *Security Level*
 - *LDAP, AD Integration*

MINIVAG

- All-in-one Box
- Small Form Factor (SFF)
 - Set-Top Box dimensions
 - *Embedded Design*
 - *FPGA "Shared Memory"*
- Full VAG Feature Set
- 1 Gbps



- Mobile Units
 - *Land, Maritime, and Airborne Platforms*
- Enterprise Offices
- SoHo

