

IAS STEW



The IAS Small Tactical Executive WAN (STEW) is a two router/single device communications solution that has been designed from the ground up to meet the needs of the most agile Communicator. The IAS STEW supports traditional Type 1 HAIPE devices for access to classified networks OR users who desire to leverage the National Security Agency's (NSA) Commercial Solutions for Classified (CSfC) process.

The IAS STEW incorporates an IAS Router and a Cisco 5915 Embedded Service Router (both of which are NSA CSfC APL listed) in a single device, supporting Government and Military CSfC users who need to access classified networks outside of their typical enterprise operational environment yet do not want the operational burden of using Type 1 CCI devices.

Weighing in at 3.9 lbs and measuring 10.8" wide by 8.2" deep by 2.0" tall, the IAS STEW provides a BLACK router, a RED router, and a power subsystem to provide power to third party outboard devices (such as Type 1 crypto devices). The IAS STEW is a completely self contained, WAN technology flexible, portable communications solution with enough routing flexibility, processing power, and portability to make any Communicator's job an "Easy Day."

Never before has such a WAN technology diverse, networking technology flexible, high performance, ultra portable Black/Red router communications solution existed. The IAS STEW contains an IAS Router MICRO, typically used as the WAN facing router, for its diverse WAN technology support, robust routing and VPN performance (Suite B IPsec greater than 250 Mbps), and easy to use touch screen friendly graphical user interface. Additionally, the IAS STEW contains a Cisco ESR5915, typically used as the classified network facing router, for its enterprise class routing capabilities and Cisco Proprietary protocols (EIGRP, IP Multiplexing, Radio Aware Routing, etc.).

Applications:

- Executive Leadership Communications
- Emergency Response Teams
- Forward Operating Bases
- HUMINT Collection Teams

Key Features:

- 1- IAS Router MICRO / 1- Cisco ESR5915
- Diverse WAN technology support
 - 10/100/1000 Ethernet
 - PPPoE
 - 802.11 a/b/g/n client, AP or both
 - 3G/4G cellular (USB or integral modems)
 - RS232
- NSA Suite B IPsec (IPMEIR) 2 Tunnel VPN Gateway Appliance
- Flexible design, supporting traditional Type 1 HAIPE devices or CSfC users
- Hard mounting points for optional third party device mounting plates
 - RoIP gateways, HAIPEs, cellular picocells
- IAS Router - web browser based GUI
- Cisco ESR5915 - Cisco CLI
- IAS Router NSA CSfC APL listing in process
- IAS Router FIPS 140-2 level 2 and NIAP Common Criteria in process

IAS STEW:

- 2.0" Tall
- 10.8" Wide
- 8.2" Deep
- 3.9 Lbs. / < 5 Lbs. (Including PSU)
- 9 to 36 VDC input
- Optional 5, 12, or 24 VDC Output
- 100~240 VAC 50/60Hz Auto Ranging Auto Sensing PSU included

The IAS STEW

The IAS STEW's innovative design affords Communicators extensive configurability. The IAS STEW offers the user the ability to configure which router is used in the BLACK and RED router role. In typical installations the IAS Router MICRO within the IAS STEW will be used as the Internet facing (BLACK) network router because of its vast WAN technology support and robust VPN modes/capabilities. The IAS Router offers multiple routable Gigabit Ethernet ports, 802.11 a/b/g/n Wi-Fi client, access point, or both client and access point simultaneously, 3G and 4G cellular modem support, and USB 3.0/2.0 or RS-232 based technologies as methods/interfaces to consume nearly all commercially or publicly available WAN technologies. Users are able to configure the IAS Router's enterprise class router capabilities through a web based, touch screen friendly GUI that makes configuration simple for even non-technical users. The IAS Router supports many VPN modes of operation, both SSL and IPsec (including CNSA/Suite B IPsec) modes, that are interoperable with most commercial VPN concentrators from vendors such as Cisco, Juniper, and others.

The IAS STEW also contains a Cisco ESR5915 (DISA UC APL approved), used as the RED network router in typical installations. The ESR5915 affords users the robust routing capabilities of Cisco's IOS and Cisco's proprietary protocols (EIGRP, IP Multiplexing, Radio Aware Routing, Cisco CallManager Express, etc). Additionally, the Cisco ESR5915 also supports NSA CNSA (Suite B) IPsec VPN mode of operation.

Communicators interested in the NSA's vision for Commercial Solutions for Classified (CSfC) will be pleased to know that the IAS STEW has been designed from the ground up to address the NSA's CSfC requirements, but unlike other "comprised solutions" the IAS STEW does so in a single portable device form factor, with a single power supply, with no additional external interconnecting cables to support the interconnection of the two VPN Gateway appliances.

Communicators who still wish to utilize Type 1 HAIPE devices for access to classified networks can do so cleanly and easily with the IAS STEW. The IAS STEW supports rigidly mounting and powering either the KG-250X, Talon 2.0, or SecNet 54 to the top of the IAS STEW. The IAS STEW offers clean, regulated DC power for the retained HAIPE device, making the use of the IAS STEW's two integral routers, and attached HAIPE device, simple and painless, requiring only one small auto ranging auto sensing 100~240 VAC AC/DC power supply unit.



IAS STEW Interfaces:

- IAS Router

- 6 - 10/100/1000 Base-T Ethernet: RJ-45, Auto MDI-X, Individually assignable (routable)
 - 1 - 10/100/1000 Base-T Ethernet offers 802.3af compliant PoE
- 2 - USB 3.0 ports, 2 - USB 2.0 ports for 3G/4G USB modems or smartphone tethering
- 2 - Mini PCIe slots for either integral Wi-Fi or 3G/4G cellular
- 2 - RP-SMA antenna connectors - 802.11 a/b/g/n Wi-Fi (ac optional)
- 2 - RS232 Serial - 1 - RJ 45 Serial Console

- Cisco ESR5915

- 5 - 10/100 Base-T Fast Ethernet: RJ-45 (2 routable / 3 switched)
 - 1 - Switched 10/100 Fast Ethernet offers 802.3af compliant PoE
- 1 - RJ 45 Console

Performance:

- Routing: IAS - Gigbit Wire Speed / Cisco - Fast Ethernet
- CNSA IPsec Throughput: IAS > 250Mbps Aggregate / Cisco 13Mbps

Management:

- Configuration: CLI, Web browser GUI, SSH, Backup/Restore
- SNMP
- Syslog

Miscellaneous:

- Power: 9~36 VDC power input (Optional 5,12, 24 VDC output)
- Operating Temperature: -20C ~ +70C Operating Humidity: 5% ~ 95% (non-condensing) Storage Temperature: -40 ~ +85C
- Weight: 3.9 Lbs., <5 Lbs. with power supply unit