



PacStar SWCP Wi-Fi

Secure Wireless Command Post

PacStar SWCP Wi-Fi is a small modular communications package enabling wireless mobility for smart phones, tablets, and laptops connected to classified and unclassified networks (e.g. SIPRnet, MPE, etc.) in deployed, expeditionary, and tactical environments.

The solution architecture follows the NSA Commercial Solutions for Classified (CSfC) Campus WLAN Capability Package guidelines. It enables end user devices to utilize built-in commercial Wi-Fi on mobile devices to provide one layer of the required two-layer NSA encryption. Combined with a single VPN client, end user devices are able to transmit classified information over Wi-Fi.

PacStar SWCP as shown provides transport for access to both a SIPRnet network and a NIPRnet network. The solution is configurable (with additional equipment) to provide transport for multiple additional classified and unclassified networks (including networks of different levels of classification up to Top Secret) over a single wireless infrastructure.

PacStar SWCP is based on the PacStar 400-Series small form factor platform. Designed to maximize capabilities with the smallest SWaP possible, and is customizable and configurable to meet other NSA CSfC capability packages including MA CP (with LTE or other radio types) and MSC CP. It can be configured to optimally serve a wide range of team sizes, and can be customized with additional software and Network Functions Virtualization (NFV) solutions to ensure interoperability with existing customer infrastructure.

PacStar SWCP is managed by IQ-Core® Crypto Manager, which simplifies system CSfC setup, configuration, certificate authority requests, and VPN management.

Key Features

- Secure, converged, high-speed wireless infrastructure capable of transmitting classified information, including multiple classified networks up to Top Secret
- Complete standalone system including all CSfC cybersecurity components (PKI, VPN, authentication systems, etc.) necessary to meet NSA guidelines
- Expandable/modular system may be customized with added networks or alternative component CSfC technologies
- Based on rugged PacStar 400-Series modules and packages that optimize SWaP and maximize deployment flexibility
- Managed by IQ-Core Crypto Manager (CM), providing easy-to-use CSfC-specific capabilities including the management of PKI, digital certificates, and VPNs in accordance with NSA requirements
- PacStar SWCP Wi-Fi is fully fielded by U.S. Army PM Tactical Networks

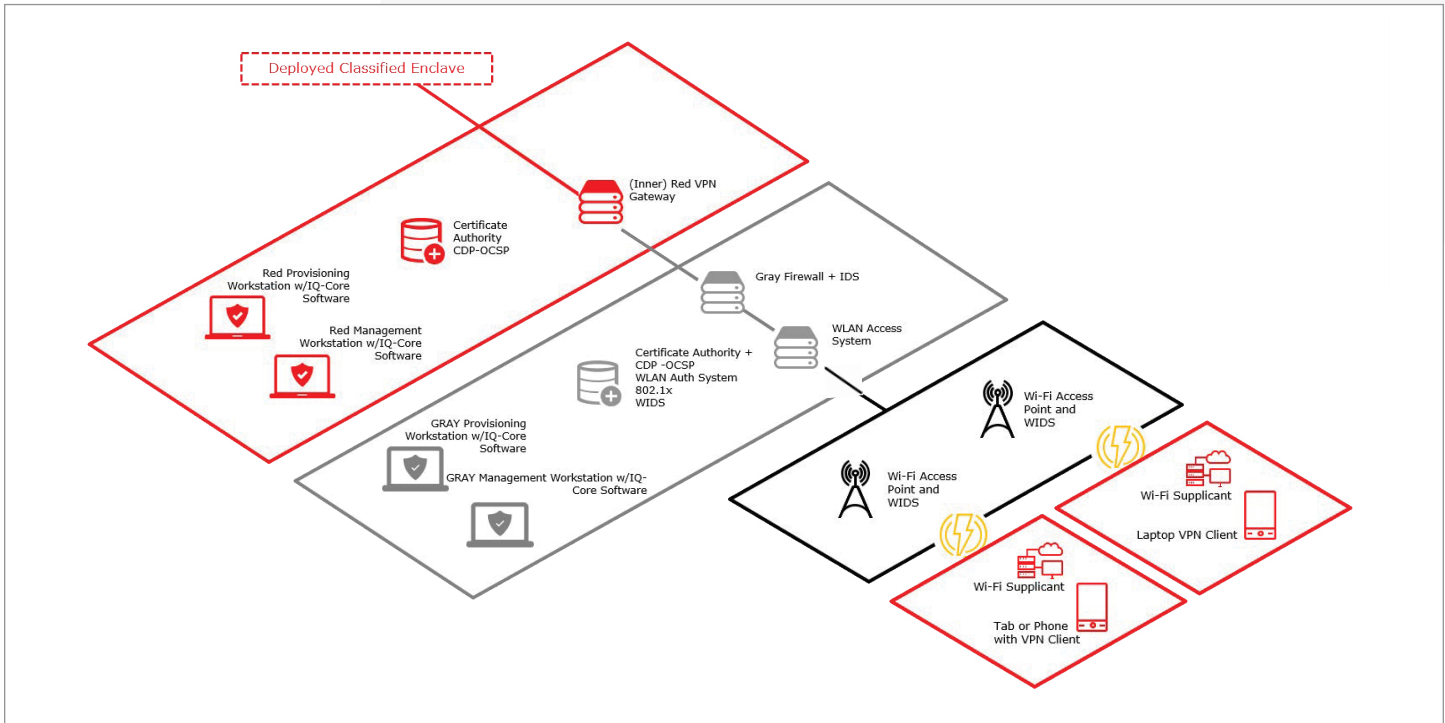


Figure 1: Product block diagram

Solution Contents

PacStar offers many configuration options for PacStar SWCP, including CSfC components on the NSA “Components List” from multiple vendors. Refer to the [PacStar CSfC Solutions whitepaper](#) for more details, or contact PacStar for the latest information and updates.

The solution contents listed below represent the most popular, deployed solutions.

Red Network

- PacStar 451 (Cisco ASA) IPsec VPN gateway
- PacStar 451 (Palo Alto VM) Red IDS
- PacStar 451 (IQ-Core Software, domain services, certificate authority, and NTP server) management services
- PacStar 444 (Cisco ESS3300) Red Switch

Gray Network

- PacStar 451 (Aruba Virtual Mobility Controller) WLAN Access System w/WPA2 EAP-TLS encryption
- PacStar 451 (Palo Alto VM) gray firewall / IDS

- PacStar 451 (IQ-Core Software, Aruba Clearpass Authentication, Aruba AirWave WIDS, domain services, certificate authority, and NTP server) management services
- PacStar 444 (Cisco ESS3300) Gray Switch

Black Network

- PacStar 444 (Cisco ESS3300) Black Switch
- Aruba Lightweight Access Points including dedicated WIDS APs

System Packaging

Physical Specifications

PacStar SWCP comes packaged in a PacStar Mini-Transit Case, with a payload of up to (9) modules, providing a transportable infrastructure for housing and operating PacStar 400-Series Smart Chassis and modules.

PacStar Secure Wireless Command Post (Wi-Fi)

- Custom designed carbon fiber transit case with wheels and handle (9" x 21" x 14")
- Meets FAA carry-on size restrictions
- Holds multiple Smart Chassis with a maximum (9) module payload - e.g. (1) 4-slot and (1) 5-slot Smart Chassis
- Removable lids for operation of equipment in the transit case
- Smart Chassis are user removable and capable of operating outside the transit case, enabling physical separation as required for classified enclaves
- Overall system weight 65 lbs.

PacStar SWCP is also available in the PacStar Rack Mount Frame and other configurations ideal for ground vehicle and airframe-mounted use cases including networking on-the-move (NOTM), and networking en route.

System Power Specifications

- Total power draw, approximately 230 watts
- Includes an integrated power system
- Worldwide AC input, 47 - 63 Hz, 85 V - 264 V
- Wide range DC input, 10 – 35 V DC

Includes (2) integrated UPSs with two battery options

- DoD standard 2590 Li-Ion rechargeable battery, 294 watt-hours rated
- NiMH BB-390B/U rechargeable battery, 117 watt-hours rated
- Automatically switches to battery if prime power is interrupted
- User accessible battery compartment
- LED indicators for battery status

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