



### SPX Series UAC Highlights

- **Broad range of secure access solutions from a single system** including remote access, remote desktop access, wireless access and site-to-site connectivity
- **Comprehensive security and admission control solution** for WLAN networks extended for employees, guests and partners alike
- **Multiple virtual SSL VPN communities of interest on a single system** for providing employees, partners and customers a separated, fully-customized experience
- **Scalability and performance to drive productivity** and a premium user experience across the organization while maintaining iron-clad security
- **Ideal access component for an overall business continuity plan**, maintaining compliance and keeping critical processes up and running in the face of un-anticipated events

### Array Networks SPX Series Universal Access Controllers (UAC) combine SSL VPN, remote desktop access and site-to-site connectivity on a scalable architecture to connect authenticated users with authorized resources - anytime, anywhere.

Supporting mobile and non-mobile employees over both fixed and wireless networks, and supporting multiple communities of interest on a single platform, SPX Series systems are the ideal choice for organizations seeking to cost-effectively drive productivity while maintaining stringent security.

#### ■ Access. Security. Performance.

Access drives worker productivity, security ensures compliance and accountability, and performance enables these benefits across the organization – cost-effectively and with a premium end-user experience. With Array's line of Universal Access Controllers you get it all: access, security and performance – the power of VPN and NAC – all on a single scalable, high-availability platform.

Moreover, SPX Series Universal Access Controllers are highly flexible, supporting multiple access products, a range of platforms and user license options, and as many communities of interest as your organization requires. With an Array UAC, IT managers can meet today's specific access and security requirements while laying a foundation for expanded functionality as the need arises.

*AccessDirect* supports Web-based, Layer-3 and specific client-server and thin-client application access – and delivers a fast, customized end-user experience unmatched by the competition.



#### ■ DesktopDirect: Desktop Access

Array *DesktopDirect* is an enterprise remote desktop access module, available independently or in conjunction with other access products on all SPX Series platforms.

*DesktopDirect* enables non-mobile employees to seamlessly work from any location, as if they were sitting in the office. Via standard web browser, any computer becomes a terminal to remotely view and control the employee's desktop computer at the office. With *DesktopDirect*, you don't need to add non-mobile employees to the VPN user base, or issue additional laptops. Remote non-mobile employees get full control of their office-situated desktop PCs, from any Microsoft Windows-based device, resulting in immediate productivity.



#### ■ AccessDirect: Remote Access

*AccessDirect* is a remote access SSL VPN module available independently or in conjunction with other access products on all SPX Series platforms.

Designed to supersede legacy secure remote access VPNs, Array *AccessDirect* SSL VPN provides greater flexibility using ubiquitous Web-based access, more granular data protection through end-point security and identity-based access control, and fewer deployment hassles with an architecture that requires no pre-installed clients and that is transparent to existing infrastructure.

*DesktopDirect's* premise-based architecture minimizes security risks and eliminates energy waste, and is extremely intuitive for users and administrators alike. *DesktopDirect* uniquely leverages proven, scalable, secure technologies to immediately deliver the only comprehensive, premise-based, enterprise-class remote desktop access solution available today.



#### ■ SiteDirect: Site Connectivity

Array *SiteDirect* is a site-to-site SSL VPN module available independently or in conjunction with other access products on all SPX Series platforms.

As opposed to traditional site-to-site VPNs, *SiteDirect* provides more than simple Layer-2/3 LAN-to-LAN encrypted connectivity; it goes beyond to allow the publishing of specific subnets, servers and applications on a white-list basis – ideal for limiting network exposure or extending controlled access to Extranet partners.

Because *SiteDirect* does not need to force entire networks together, it mitigates issues such as duplicate IP spaces and routing conflicts. What's more, unique automatic dual-NATing can make published resources appear to reside on remote networks - hiding sensitive network information. Both hub-and-spoke and mesh architectures are supported via SPX platforms located at each peer.



### ■ WiFiProtect-Wireless Access

WiFiProtect is a secure wireless access module available independently or in conjunction with other access products on all SPX Series platforms.

Offloading WLAN security onto WiFiProtect, access points experience improved interoperability and performance. Because SSL encryption takes place between client browsers and the Array SPX, access point security may be turned off to eliminate compatibility issues for unmanaged wireless cards. Offloading compute-intensive encryption to Array hardware, access points run in their powerband, performing their core competency. Array's captive portal technology redirects initial browser requests to a login portal where employees must authenticate and guests must identify themselves.

Role-based access partitioning ensures full network access for employees, access to specific applications for partners, and Internet access only for guests. Cache-cleaning can be enabled to wipe client browsers upon session termination, and Secure Desktop can deliver WLAN client sessions within an encrypted vault to prevent data leakage due to local actions such as saving, printing, and copying or pasting of local data.

### ■ End-Point (Client) Security

A dissolvable security agent mitigates network or resource exposure by enforcing pre- and post-admission policies and adapting access rights to suit changes in the client environment. Host-checking verifies device and user identity, and ensures clients meet pre-defined security parameters (anti-virus, anti-spyware, personal firewalls, patches, service packs, etc.) and determines adaptive policies. For additional control, cache cleaning can wipe cached information from devices when a session ends; or secure desktop may be enabled to store session data in an encrypted vault to prevent data leakage associated with local saving and printing.

### ■ Transit & Server-Side Security

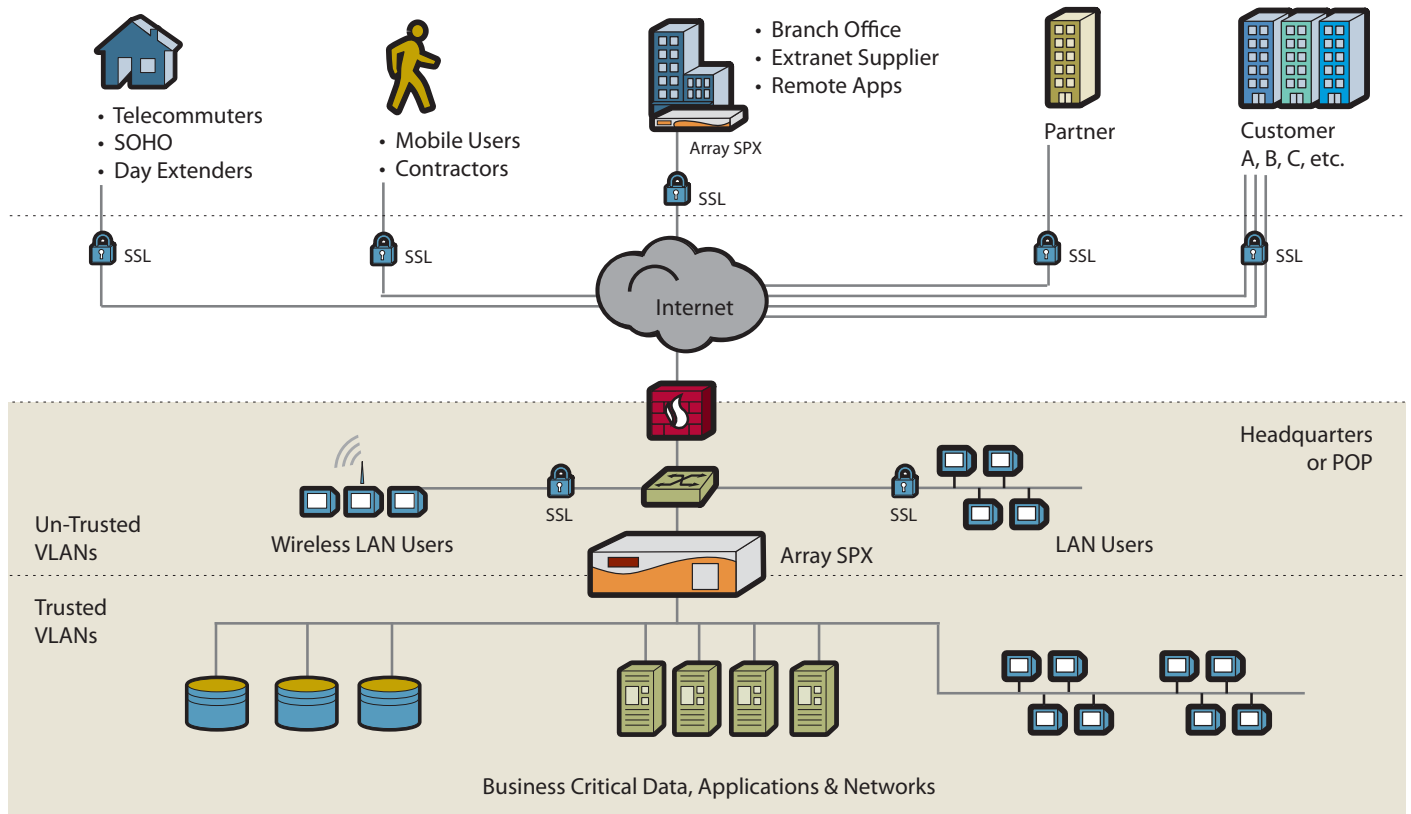
All traffic between clients and the Array Universal

Access Controller is encrypted over SSL. An integrated SSL VPN firewall, reverse proxy architecture and security-hardened OS ensure that SPX Series systems are as secure as the networks and resources they protect. Layer 2-7 authorization provides granular access control based on user identity and role within the organization, while comprehensive auditing tracks all activity on a per-user, per-event, and per-resource level.

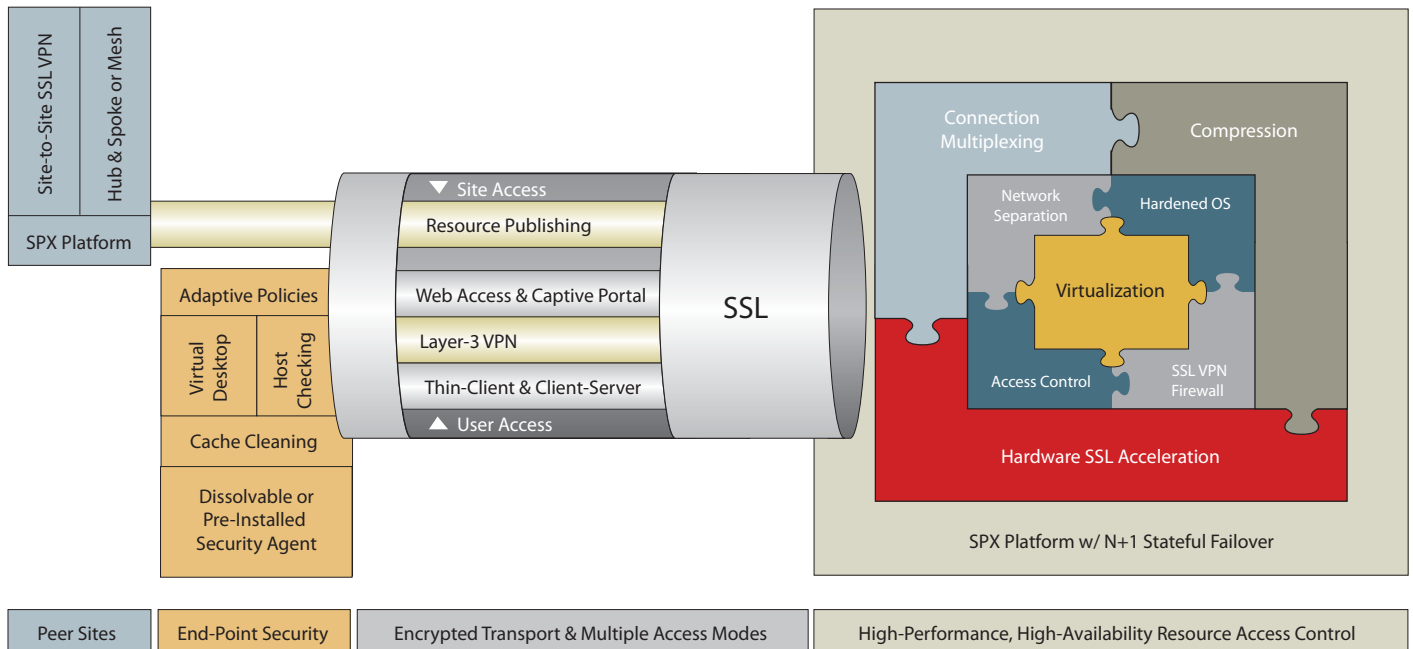
### ■ System-Level Virtualization

Array SPX Series Universal Access Controllers support up to 256 fully separate communities of interest on a single system - each independently manageable with its own security policies and each with its own unique look and feel. Secure portals and virtualization maintain separation on the front end, while VLAN association maintains separation on the back end.

From a single system, an enterprise can give customers access to public Web-based services, enable employee access for business-critical applications, and extend extranet connectivity to partners. Service providers can support up to 256 customers from a single system, dramatically reducing capital and operational expenditures.



# Universal Access Controller



## ■ Performance & Scalability

With support for up to 64,000 concurrent users and 850 Mbps throughput on a single system while maintaining single-digit millisecond latency, the Array SPX Series is the highest performing most scalable secure access solution on the market – providing unbeatable ROI for global enterprises and service providers and unbeatable price-performance for organizations of any size.

## ■ Application Acceleration

Typically, layers of protection add to security at the expense of application performance; and no matter how sophisticated a VNP or NAC solution is, it won't enhance productivity unless users find it

fast and friendly. To this end, Array SPX Series Universal Access Controllers feature integrated application acceleration technology including hardware accelerated SSL encryption, hardware compression and connection multiplexing for putting servers in their power band. With the purpose-built Array SPX, the compromise between security and performance is eliminated once and for all.

## ■ Reliability & Availability

Deployed by the largest enterprises and service providers in the world, SPX Series Universal Access Controllers have proven their reliability – tallying up over five years of flawless performance in the most demanding of production network environments. In the event of failure, N+1 clustering with stateful failover utilizes fully-mirrored sessions to ensure an unaffected, transparent experience for end users.



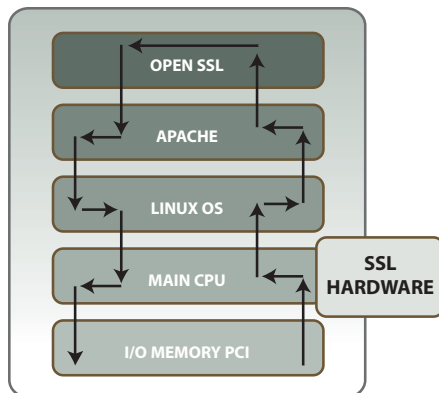
## ■ Array Business Continuity

Events such as hurricanes, snow days, transit disruptions and the threat of global terror or pandemics make the world and the workplace increasingly unpredictable. More than ever, organizations require solutions that keep their employees up and running in the face of unanticipated or seasonal events.

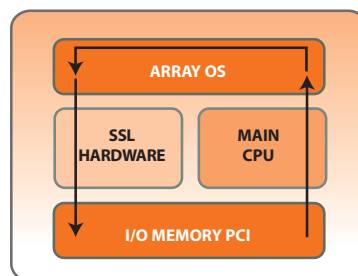
Array Universal Access Controllers are ideal for business continuity planning (BCP). Ubiquitous Web access means users can access from any device, anywhere. DesktopDirect enables new users to see their familiar work desktop and continue to be productive. And pre-paid BCP licensing meets the requirements of any size organization. And most important, only Array BCP licenses self-activate – with no IT interaction.

## ■ Management & Reporting

Array SPX Series Universal Access Controllers offer both a familiar CLI and an intuitive Web user interface that can easily be customized to create streamlined, integrated management systems. Monitoring the Array SPX is made simple with SNMP-based monitoring tools, and with support for XML-RPC, a range of third-party applications can be used to automate management tasks.



General-Purpose SSL VPN



Array Purpose-Built UAC

## Access Methods

### Clientless Web Portal Access

- 100% clientless
- Re-writes HTML, JavaScript, HTTP cookie URLs
- Ensures proper function of application beyond the corporate network
- Masks internal DNS and IP addressing
- Windows 2K, XP, Vista, Linux, WAP/WML portal, cell phones with full Web browser, WinCE/Palm PDA

### File Access

- SMB, DFS (Windows); NFS (UNIX)
- Browse and delete directories
- Upload, download and delete files
- Easy access
- Maintains original server policies (access rights)
- Supports NTLM single sign-on

### Network Level Connectivity

- Supports any IP based applications (TCP, UDP, NetBIOS)
- Different network pools defined per user or group
- Split tunneling and full tunneling control
- Network drive mapping
- Automatic launch of network scripts/commands
- IP address assignment based on users, groups, DHCP and RADIUS
- Windows 2000, XP, Vista, Linux, MacOS X
- Stand-alone, command line and SDK for Layer-3 VPN client
- Pre-installable client, web-delivered client

### Application-Specific Access

#### Client-Server Applications

- Any client-initiated TCP applications
- Single port and multi-port
- Outlook, Lotus Notes
- Microsoft Terminal Services, Citrix Presentation Server
- Passive FTP
- Windows XP remote desktops
- VNC servers & Telnet

#### Thin-Client Applications

- Citrix Presentation Server applications
- Microsoft Terminal Services applications
- Telnet thin client

#### Authorized Traffic Forwarding

- 100% Clientless
- Only authorized traffic will be forwarded

## End-to-End Security

### End-Point Security

#### Host Checking

- Tests device state prior to allowing access
- Scans for personal firewalls, anti-virus, OS service packs
- Customized rules for a range of apps, registry checks, patches

#### Adaptive Policies

- Level of access conditional on end-point status
- Integrated policy management

#### Secure Virtual Desktop

- Limits user ability to store confidential data on unauthorized workstations
- Stores information in an encrypted vault
- Controls local resources and ability to download session data into a local drive

#### Cache Cleaning

- Wipes all stored information when the session is over
- Per-session with idle timeout and browser closure
- Windows Vista and previous generation
- Windows, RedHat, Linux 9, MacOS X

### Server-Side Security

- Security-hardened OS
- Passive and active Layer-7 content filtering
- Permit or deny policies
- DDoS prevention
- Telnet Application-Layer Filtering (ALF)
- Reverse-proxy network separation

### Encryption

- AES, DES/3DES, SHA/MD5, TLS support

## Access Control (AAA)

### Authentication

- LDAP, RADIUS, AD, LocalDB, RSA SecurID, Swivel, Vasco, Custom
- Certificate-based authentication
- Authentication server rating (search user credential in multiple servers)
- Challenge Response Mode
- Multi-domain LDAP authentication
- Restrict login based on date and time, client MAC address, client hard drive ID, and custom checks
- Single Sign-on, NTLM, HTTP basic authentication

### Authorization

#### Granular access control of resources

- Group and users policies
- Permit and deny policies
- Consolidated access control
- Provides high flexibility in configuration

#### Two factor authentication/authorization

- SSL client certificates, RSA SecurID, Entrust
- Other RADIUS-based authentication systems

### Auditing

- Full audit trail in WebTrends WELF format
- Logs all user activity – success, failures, attacks

## Scalable Performance

- Optimized packet flow; single-digit millisecond latency
- Hardware SSL key exchange and bulk encryption; performed in kernel
- Hardware compression for reduced download times and improved user experience over slow links
- Connection multiplexing optimizes server efficiency; reduces back-end connections
- N+1 clustering (up to 32 systems) with stateful session failover
- Up to 256 discrete virtual portals/user communities on a single system
- Up to tens of thousands of concurrent users on a single system
- Reverse proxy architecture

## Management

- Intuitive streamlined WebUI
- Quick-start wizard
- Role-based administration
- Strong administrator authentication
- RADIUS accounting
- No client installation or management

### Customizable End-User Portals

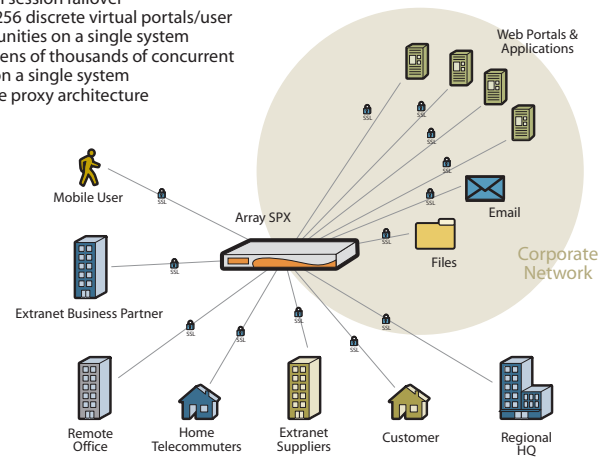
- Embed and import Array includes on a per virtual site basis for enhanced look and feel
- No external server requirements
- Localized end-user GUI support for English, Korean, Japanese, simplified & traditional Chinese

### Virtualization

- Single page virtual site creation
- Delegated management
- URL aliasing (saves on certificates and IPs)
- Complete security and data separation
- Instant DMZ on demand
- Strong compliance assurance

### Multi-device Management

- SSH/CLI, SSL/WebUI, SNMP, XML/RPC API
- Integration with Microsoft Operations Manager, HP OpenView



	SPX800	SPX1800	SPX2800	SPX4800	SPX5800	SPX6800
<b>SSL Processing</b>	HW	HW	HW	HW	HW	HW
<b>Compression</b>	SW	SW	SW	SW	SW or HW	SW or HW
<b>Ports</b>	2 Gig Eth	4 Gig Eth	4 Gig Eth	4 Gig Eth	Up to 4 Gig Ports Optional 2 Fiber	Up to 4 Gig Ports Optional 2x10 Gig Fiber
<b>Max Virtual Portals</b>	5	5	50	256	256	256
<b>Max Site-to-Site Peers</b>	1	5	25	50	250	250
<b>Min User License</b>	25	10	10	25	50	100
<b>Max Concurrent Users</b>	50	100	1,200	6,000	12,000	64,000
<b>Throughput</b>	100 Mbps	100 Mbps	200 Mbps	400 Mbps	850 Mbps	850 Mbps
<b>Form Factor</b>	1U	1U	1U	1U	2U	2U
<b>Power Supply</b>	Single	Single	Single	Single	Dual	Dual
<b>Clustering</b>	1+1	1+1	1+1	N+1	N+1	N+1

## Technical Specifications

Support	Bronze, Silver & Gold Level Support Plans	Dimensions	Array SPX800, 1800, 2800, 4800: 17" W X 15" D X 1.75" H or 1U Array SPX5800, 6800: 17" W X 21.5" D X 3.5" H or 2U
Warranty	1-Year Hardware; 90-Day Software	Weight	Array SPX800, 1800, 2800, 4800: 13.6 lbs; SPX5800, 6800: 30 lbs
SPX800, 1800, 2800 & 4800	10/100/1000 Base-TX IP, SecurID, SSH, SSL-TLS, HTTP 1.0/1.1, SNMP	Environmental	Operating Temperature: 0° to 45°C, Humidity: 0% to 90%, Non-condensing SPX800, 1800, 2800, 4800: 100-240VAC, 2.8 A, 47-63Hz, Auto-ranging SPX5800, 6800: 100-240VAC, 6A; 47-63 Hz, Full-range input, Redundant, Hot Swappable
SPX5800 & 6800 Standards	10/100/1000 Base-TX, 1000 Base-SX, 10 Gig e, IP, SecurID, SSH, SSL-TLS, HTTP 1.0/1.1, SNMP	Regulatory Compliance	IEC 60950-1, LU/CSA 60950-1, EN 60950-1, ICES-003, EN 55024, CISPR 22, AS/NZS 3548, FCC, 47FR part 15 Class A, VCCI-A
Management	SSH CLI, Direct Console CLI, SNMP, Single Console for Cluster, Array Pilot™ (Secure WebUI) for Array OS, XML-RPC	Safety	CSA, C/US, CE, UL
Console	Male DB9 Serial (RS232) Port		