



Array's AccessDirect SSL VPN enables anytime, anywhere secure remote access for employees, customers and strategic partners to business-critical resources — increasing corporate productivity and lowering IT overhead. With *AccessDirect*, mobile and offsite users need only a common Web browser to quickly and securely access e-mails, files, intranets and applications. Moreover, Array's SSL VPN requires no pre-installed clients or changes to the network and fully eliminates IP conflict, firewall, NAT traversal and compatibility issues associated with legacy VPNs.

■ Flexible Remote Access VPN

Using SSL, the security protocol present in all Web browsers, *AccessDirect* enables a range of remote access options (Web, Layer-3, application-specific) across a broad spectrum of managed and unmanaged devices including laptops, desktops, mobiles and PDAs.

■ WebDirect Clientless Portal

Innovative reverse-proxy technology enables file shares, Web pages and Web applications to be transformed on-the-fly and presented within a secure portal for remote access. Because users never access corporate networks or applications directly, the *WebDirect* proxy is the safest remote access method available. And because no clients of any kind are required, *WebDirect* is also the fastest, most ubiquitous remote access method.

■ NetworkDirect Layer-3 VPN

Many users and organizations prefer network-level connectivity for corporate-owned devices. Unfortunately, legacy network-level VPNs have significant drawbacks - including NAT and firewall traversal issues, IP routing and interoperability conflicts, and the need to pre-install clients. In contrast, *NetworkDirect* provides Layer-3 access over SSL that is transparent to existing network infrastructure, utilizes an on-the-fly client and is universally compatible.

■ AppDirect Resource Specific

Extending specific non-Webified applications to remote users (without providing full network-level access) is achieved using *AppDirect*. Both client-server and thin-client applications are supported; authorized client-server applications launch natively from the desktop and published thin-client applications launch in a Web browser.

■ Maximum Security & Control

AccessDirect provides unparalleled safeguards for protecting business-critical information. All data is encrypted over the Internet using SSL. Array's end-point security agent authenticates requests based on user and device identity and the administrator's comfort level for a given device or access environment. Adaptive policies and ACLs provide authorization for URLs, files, networks and applications based on identity and role within the organization, while comprehensive auditing tracks all activity on a per user, per event, and per resource level. For added security, cache-cleaning and secure desktop can be enabled to lock down sessions and eliminate data leakage.

■ Scalable Performance & TCO

AccessDirect for Array SPX supports organizations of any size, from SMBs through global enterprises needing to support tens of thousands of users. Integrated compression, connection pooling and

AccessDirect Highlights

- **Anytime, anywhere secure remote access** for home workers, day extenders, mobile employees and Extranet partners to productivity-enhancing resources
- **Controlled access for both managed and un-managed devices** including desktops, laptops, mobiles and PDAs
- **Range of access methods** including Web, Layer-3 and specific client-server and thin-client applications
- **Cross-platform support** for a range of operating systems, browsers and client-side security scans
- **Dynamic end-point security** including host-checking, adaptive policies, cache-cleaning, and secure virtual desktop
- **Granular identity-based access control** for URLs, files, networks and applications
- **Superior end-user experience** through integrated application acceleration and 256 virtual portals tunable to the preferences of multiple communities of interest
- **No pre-installed clients or network traversal issues;** requires only a common Web browser for users to gain access

hardware-accelerated encryption ensure blazing fast performance for each user, even under the heaviest load. Moreover, support for up to 256 fully-secure and separate SSL VPN virtual portals (independently manageable and customizable) allows organizations to support multiple business units, partners, and customers on a single SPX Series system, greatly reducing TCO.

■ Effortless Management

AccessDirect offers both a CLI and a Web user interface that can easily be customized to create an intuitive management system. Monitoring the Array SPX is simple with SNMP-based monitoring tools such as HP OpenView, and with support for XML-RPC, a wide range of third-party applications can be used to automate management tasks.

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
- GINA Integration
- 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
- Windows terminal services, Citrix Presentation Server
- Passive & Active FTP
- Windows XP remote desktops
- VNC servers
- Telnet

Thin-Client Applications

- Citrix Presentation Server applications
- Windows terminal services applications
- Telnet thin client

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 information 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

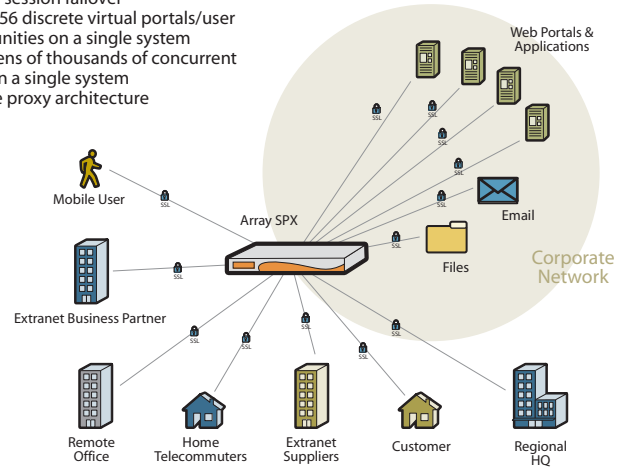
- Embed and import Array includes on a per virtual site basis for enhanced look and feel
- No external server requirements
- Localized end-user GUI support for English, Korean, Japanese, simplified & traditional Chinese

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



	SPX1800	SPX2800	SPX4800	SPX5800	SPX6800
SSL Processing	HW	HW	HW	HW	HW
Compression	SW	SW	SW	SW or HW	SW or HW
Ports	4 Gig Eth	4 Gig Eth	4 Gig Eth	4 Gig Eth Optional 2 Fiber	4Gig Eth Optional 2xFiber or 2 x 10 Gig Fiber
Max Virtual Portals	5	50	256	256	256
Min User License	10	10	25	50	100
Max Concurrent Users	100	1200	6000	12,000	64,000
Throughput	100 Mbps	200 Mbps	400 Mbps	850 Mbps	850 Mbps
Form Factor	1U	1U	1U	2U	2U
Power Supply	Single	Single	Single	Dual	Dual
Clustering	1+1	1+1	N+1	N+1	N+1

SPX1800/
SPX2800



SPX4800



SPX5800/
SPX6800



Technical Specifications

Support	Bronze, Silver & Gold Level Support Plans	Dimensions	Array SPX1800, 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 SPX1800, 2800, 4800: 13.6 lbs; SPX5800, 6800: 30 lbs
SPX1800, 2800 & 4800	10/100/1000 Base-TX IP, SecurID, SSH, SSL-TLS, HTTP 1.0/1.1, SNMP	Environmental	Operating Temperature: 0° to 40°C, Humidity: 0% to 90%, Non-condensing SPX1800, 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	10/100/1000 Base-TX, 1000 Base-SX, 10 Gig Fiber, 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 port	Male DB9 Serial (RS232) Port		

