



**Array DesktopDirect™ allows employees to securely work at home or on the road, as if they were sitting at their office desktop. With a simple click, the user's remote PC or laptop becomes a terminal to their computer at the office – enabling seamless productivity. Because all applications run on the office computer, DesktopDirect eliminates the need for IT to pay for or support additional application environments.**

### ■ Desktop-Centric VPN Access

Different employees have different remote access needs. For many employees, traditional network level or Web-based secure access may be just the ticket. For desktop-centric day extenders, whose work depends heavily on resources residing on their office computer, Array introduces DesktopDirect.

DesktopDirect allows organizations to provide employees with anytime, anywhere secure access to their office desktop environment. Employees can log in remotely from most Windows machines, ranging from home PCs and laptops to public kiosks. DesktopDirect, running on an Array SPX Series system, authenticates the user's identity using the company's existing authentication servers or a local database. Once the user has logged in, a remote desktop terminal window is launched from a Web browser. The user simply selects a desired desktop and is automatically logged in using single sign-on.

### ■ End-Point Control & Security

Unlike managed service offerings, the DesktopDirect solution is completely controlled by the organization – eliminating the need to trust security or risk exposure to outside entities. All data is encrypted over the Internet using SSL.

For additional security, functions including saving, printing, copy and paste and more may be enabled or disabled depending on the IT administrator's comfort level for a given user or environment. Moreover, the remote desktop can be launched inside a secure virtual desktop to completely eliminate potential data leakage.

### ■ Rapid Return On Investment

To drive worker productivity over more traditional network-level VPN solutions, IT must purchase additional application licenses for every remote access device. This is costly, both in terms of licenses and the time and effort required to support and install them; it also typically restricts users to a single remote access device.

With DesktopDirect, applications reside only on the office computer and are securely accessible from virtually any Windows device - greatly reducing the time and money required to support applications. In contrast to managed solutions, DesktopDirect offers unbeatable ROI. Why pay indefinitely? With DesktopDirect you don't have to.

### ■ Ease of Use & Administration

The DesktopDirect product package includes Array Registration Technology (ART) software,

## DesktopDirect Highlights

- **Secure access to office desktops and associated resources** from anywhere, at anytime
- **Ideal for desktop-centric day extenders** whose work relies heavily on resources residing on their office computer
- **Eliminates the need for IT to purchase or support additional application environments** to enable remote worker productivity
- **Desktop remote access with comprehensive encryption and end-point security** without the need to pay indefinitely for a managed service solution
- **Rapid association between desktops and users via Array Registration Technology (ART)** in a series of carefully designed and simple steps
- **Integral component in Business Continuity Planning (BCP):** users can work at home as if they were in the office, first-time users see their familiar desktop, fewer support calls

enabling dynamic user self-registration in conjunction with external database servers.

ART quickly installs on Windows systems acting as backend servers behind Array SPX systems. When users log in, the DesktopDirect end-point client communicates securely with an ART server through the SPX over a thin-client SSL tunnel.

ART servers interface with external databases to retrieve user registration information, and send a reply to the DesktopDirect end-point client to present a list of authorized desktops to the user.

Quick-start wizards walk the IT staff through the implementation of both registration and user portals – and walk end-users quickly through self-registration and initial use.

## Workstation Requirements

- Windows XP Pro
- Windows Vista

## Remote User Requirements

### Operating System

- Windows 2000
- Windows XP Pro
- Windows XP Home Edition
- Windows Vista

### Browser

- Internet Explorer 6.0 or higher
- Firefox 1.0 or higher

## Array Registration Technology

- Static registration
- Auto-registration

### Requirements

- Windows Server 2000
- Windows Server 2003

### Auto-registration Integration

- Registration mapping
- Registration interface
- Registration client
- Downloadable from Array SPX
- Multiple ARP servers
- Wildcard registrations
- Static registration retrieval

## DesktopDirect Thin Client

- Included in and deployed from SPX
- Utilizes local RDP client
- RDP 5.0 or higher
- RDP auto-update/deployment

### User-controlled Parameters

- Screen size
- Color depth
- Sound
- Redirection

### Redirection Control

- Drive
- Printer
- Ports
- Smart cards
- Clipboards

## User Interfaces

### Dedicated Remote Portal

- Login
- Desktop selection
- Control panel

### Registration Portal

- Consistent with Remote Portal
- Self-registration
- On-site access only

## Security

- Hardened OS

### Encryption

- AES
- DES/3DES - SHA/MDS
- TLS support

### End-point Security

- Host checking
- Cache cleaning
- Secure desktop

## Control (AAA)

### Authentication

- LDAP, RADIUS, AD, Local DB
- Advanced single sign on (SSO)
- Two-factor authentication

### Authorization

- Available desktops and redirection conditional upon end-points

### Auditing

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

## System Management

- WebUI
- CLI
- SSH
- SNMP
- XML/RPC
- Remote portal wizard
- Registration portal wizard

## Logging/Monitoring

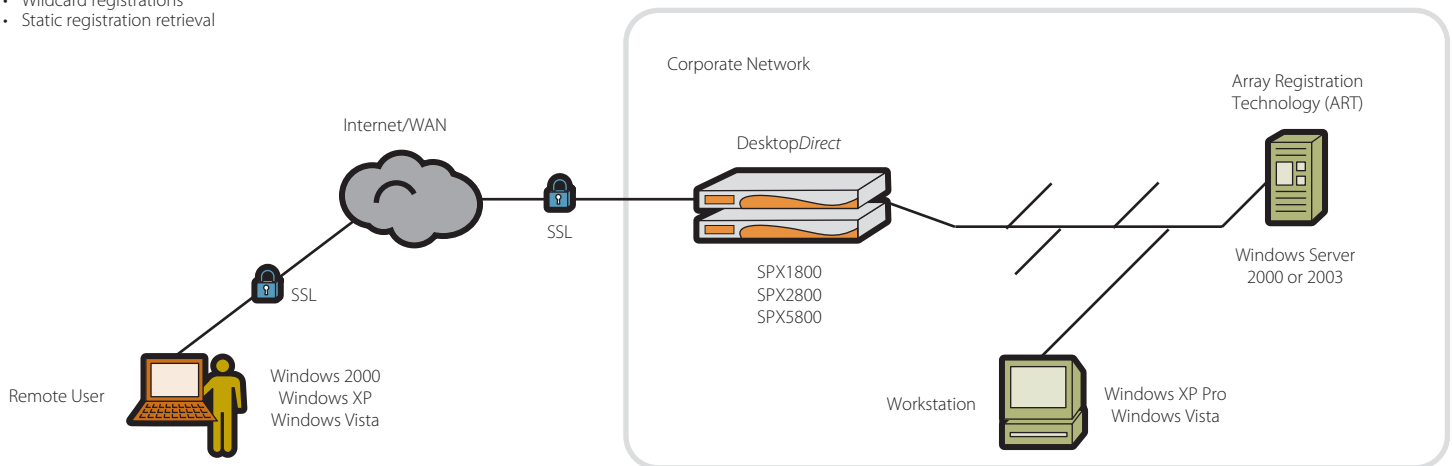
- Syslog
- Alarm/trap
- Traffic log/Web Trend
- Stats/counters, SNMP MIB

## Performance & Capacity

- License controlled capacity
- Platform dependent performance
- N+1 clustering with failover (32 systems)
- Up to 256 virtual systems

## DesktopDirect Requirements

- Available on all SPX Series platforms
- Requires Array OS version 8.1 SP or higher
- DesktopDirect thin-client
- Array Registration Technology (ART)



	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 2x 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



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		