



DesktopDirect™ enables office workers to seamlessly access their desktop PCs 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 PC at the office. DesktopDirect's architecture uniquely leverages proven, scalable, secure technologies to deliver the industry's only comprehensive, enterprise-class remote desktop access solution.

■ Remote Access for Everyone

Remote access is no longer a luxury for anyone - in order for an organization to stay competitive, every single PC user needs a way to work remotely. However, traditional VPNs only serve the mobile workforce (road warriors and home office users). Until now, there has been no easy and cost-effective way to get the non-mobile workforce (office-situated users) productive from any location, without compromising security or productivity.

With DesktopDirect, you don't need to add non-mobile employees to the VPN user base, or to issue additional laptops. Non-mobile workers get a full view into office-situated desktop PCs, from any Microsoft Windows-based device, resulting in immediate productivity.

■ Minimizes Security Risks

DesktopDirect's architecture utilizes strong encryption, AAA policies, data leakage protection, and provides administrators with centralized real-time control. AAA data is kept deep inside the trusted network without exposure to the public Internet; potential new attack footholds that could result from 3rd-party managed services are never an issue; and administrative control over user activity to printers, drives, smart cards, ports, and clipboards eliminate data leakage concerns.

■ Eliminates Energy Waste

DesktopDirect's power management capabilities deliver the industry's only first energy-efficient remote desktop control solution that allows for desktop computers to be shut down when not in use, saving the average mid-sized company nearly \$200,000 annually in energy costs, and reducing that company's overall environmental impact by nearly 1,400 tons of atmospheric CO₂ emissions.

■ Extremely Intuitive

To remotely control their desktop PC sitting in the office, employees first browse to a URL (determined by the system administrator). Next, they enter their SSO credentials (the same credentials they enter every day to log in to their desktop PC when they are sitting in the office). After logging in, a window presenting their desktop automatically launches.

DesktopDirect users do not need to modify their daily behavior. There are no new passwords to remember or client applications to learn, and at the end of the work day, users power down their desktop computers as they normally would. If a powered-down desktop needs to be remotely viewed and controlled by a user later on, then DesktopDirect will power up that desktop for the user, exactly as if they were in the office and were to boot up the desktop themselves.

DesktopDirect Highlights

- **Instant Business Continuity Planning (BCP) augmentation** via seamless remote control of office desktops
- **Ideal for non-mobile users** who are unfamiliar with traditional VPN solutions
- **Data leakage protection and premise-based architecture** minimize security risks inherent to managed solutions
- **Hardware appliance** delivers ROI in under 1 year, and maintains consistently high user Quality of Experience (QoE)
- **Power management** boots up PCs in the "off" state, and reduces power costs and energy footprint
- **Easy 3-step SSO login process** is extremely intuitive for end users, eliminating any need for training
- **Auto-registration option** enables rapid and painless deployment
- **iPhone support** prevents data leakage, optimizes user experience, enables full application availability over 3G networks

■ Painless to Deploy

DesktopDirect features Array Registration Technology (ART), which maintains and displays data about users and their registered desktops, determines desktop availability, manages power management capabilities, and establishes sessions between remote clients and office desktops. ART ships standard on any Array SPX Series Appliance running DesktopDirect Edition.

ART enables administrators to choose whether to manually register desktops (individually or in bulk), or whether to allow dynamic self-registration of desktops by users directly.

DesktopDirect authenticates user identities via existing AAA servers, requiring no new authentication infrastructure.

Office Desktop PC Requirements

- Windows XP Pro
- Windows Vista
- Windows 7

Remote PC Requirements

Operating System

- Windows 2000
- Windows XP Pro & Home Edition
- Windows Vista
- Windows 7
- iPhone v2.2.1 and higher

Browser

- Internet Explorer 6.0 and higher (Windows)
- Mozilla Firefox 3.0 and higher (Windows)
- Google Chrome 3.0 and higher (Windows)

Array Registration Technology

- Static registration
- Bulk registration (import/Export)
- Automatic registration
- Scalable up to 150K users, 300K desktops

Auto Registration Integration

- Registration interface
- Registration management
- Clustering
- Bulk Import / Export from external databases

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 (if permitted by admin)
- Multiple monitors
- Performance tuning

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

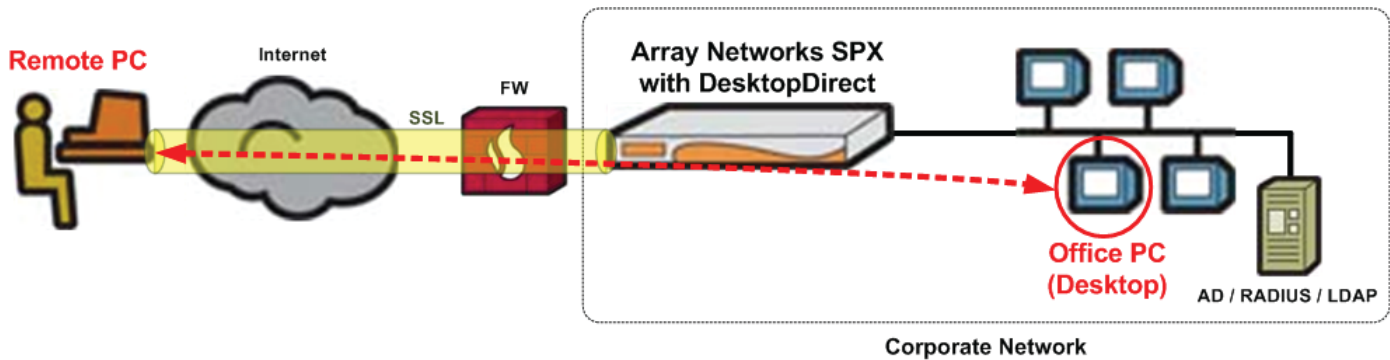
- WebUI
- CLI
- SSH
- SNMP
- XML/RPC
- Remote portal wizard
- Registration portal wizard

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



	SPX800	SPX1800	SPX2800	SPX4800	SPX5800	SPX6800
SSL Processing	HW	HW	HW	HW	HW	HW
Compression	SW	SW	SW	SW	SW or HW	SW or HW
Ports	2 GE	4 GE	4 GE	4 GE	4 GE Optional 2 x Fiber	4 GE Optional 2 x Fiber or 2 x 10 Gig Fiber
Maximum Concurrent Users	50	100	1,200	6,000	12,000	64,000
Maximum Throughput	100 Mbps	100 Mbps	200 Mbps	400 Mbps	850 Mbps	850 Mbps
Form Factor	1U	1U	1U	1U	2U	2U
Power Supply	Single	Single	Single	Single	Dual	Dual
Clustering	1+1	1+1	1+1	N+1	N+1	N+1

SPX800



SPX1800



SPX2800



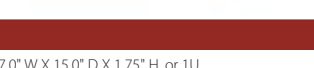
SPX4800



SPX5800



SPX6800



Technical Specifications

Support	Bronze, Silver, and Gold Level Support Plans	Dimensions	SPX1800, SPX2800, SPX4800: 17.0" W X 15.0" D X 1.75" H, or 1U SPX5800, SPX6800: 17.0" W X 21.5" D X 3.50" H, or 2U
Warranty	1-Year Hardware; 90-Day Software	Weight	SPX1800, SPX2800, SPX4800: 13.6 lbs SPX5800, SPX6800: 30.0 lbs
SPX1800, SPX2800, SPX4800	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, SPX6800	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 ArrayOS, XML-RPC	Safety	CSA, C/US, CE, UL
Console Port	Male DB9 Serial (RS232) Port		



Array Networks

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