

Secure Windows Provisioning Server

NDP Research – Tech Note

July 2012

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Tech Note Number	NDP-TN-109
Problem	Achieving a comprehensive yet secure network deployment solution for Windows servers and workstations with full-cycle management and monitoring capabilities.
Description	NDP possesses the experience and personnel to provide rapid and comprehensive provisioning, management, and monitoring solutions for secure Windows deployments using System Center Configuration Manager (SCCM) for the Enterprise, System Center Essentials (SCE) for the medium-sized business, and a solution built on completely free Microsoft technologies for the small to medium sized organization. Furthermore, by using a novel approach to update deployment to standalone networks specific security updates can be rapidly deployed via limited optical media. Newly deployed systems join the Active Directory (AD) network and immediately begin applying centrally managed security policies and deploying mandated software which can be audited from a single interface.
Core Technology	NDP solutions leverage advanced networking and software technology, including FOSS. The solution described utilizes Windows Server 2008 R2, Windows Active Directory (AD) and Group Policy Objects (GPO), SCCM (optional), SCE (optional), Windows Deployment Services (WDS, optional), Microsoft Deployment Toolkit (MDT, optional), Windows Server Update Services (WSUS, optional) and Windows Automated Installation Toolkit (WAIK, optional). Regardless of which tier is chosen, NDP provides a simple ‘light-touch’ strategy to rapidly deploy hardened windows servers and workstations into our customers’ network.
Benefit	Our customers see the deployment of their Windows operating systems and applications from a unified interface. Initial deployment is ‘Light-Touch’ for the rapid deployment of workstations, servers, and virtual machines. Security policies are highly configurable via group policy to dictate functional security policies which are applied post-install. Each system is advertised a set of optional or mandatory software policies (including immediate installation of security sensitive applications) which can be monitored for compliance from a central console.
Market	Our focus is on Defense and National Intelligence agencies with space-based assets, but the techniques and technologies apply in other sectors with stringent reliability, latency, and security requirements.

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Technology	7. System prototype demonstration in an operational environment
Readiness Level	
Keywords	SCCM, SCE, MDT, WDS, WAIK, Windows, PXE, WSUS, BITS, Windows Hardening, Windows Deployment, Windows Provisioning, NSA, DISA, DSS, STIG, SRR, Gold Disk
About NDP	NDP designs and deploys complex computer systems and networks. We also assure that these systems and networks can operate securely in cyberspace. By integrating sound net-centric designs into our customer systems, we enable them to gain a competitive advantage that translates to mission effectiveness. We primarily support DoD, Intel and Federal customers and currently expanding our offerings to the commercial and academic markets. We are a customer-centric, technology-centric and people-centric company.

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