

# Device Lock<sup>®</sup>

GROUP POLICY-INTEGRATED DATA LEAK  
PREVENTION (DLP) SUITE FOR PROTECTING  
SENSITIVE INFORMATION

## Why Consider An Endpoint DLP Solution?

The data you are striving to protect behind firewalls and passwords is likely still slipping through your fingers. Data leaks can be initiated by either unwitting employees or users with malicious intent who copy proprietary or sensitive information from their PCs and Macs to flash memory sticks, smartphones, cameras, PDA's, BD/DVDs, or other convenient forms of portable storage. Data leaks may also spring from user emails, instant messages, web forms, social network exchanges, file sharing cloud services or telnet sessions. Wireless endpoint interfaces like Wi-Fi, Bluetooth, and infrared, as well as connected mobile devices provide additional avenues for data loss. Likewise, endpoint PCs can be infected with vicious malware or keyloggers that harvest user keystrokes and send the stolen data over SMTP or FTP channels into criminal hands. While these threat vectors can evade conventional network security solutions and native Windows/Apple OS controls, the DeviceLock data leak prevention (DLP) solution addresses them. DeviceLock DLP Suite enforces data protection and auditing policies with awareness of both the context and content of data flows across endpoint channels where leaks can otherwise occur. In addition, DeviceLock's content discovery capabilities help prevent leakage of data stored on corporate computers, network shares and storage systems. DeviceLock also delivers Virtual DLP that extends data leak prevention to a variety of session-based, streamed and local virtual machines and to BYOD devices using desktop and application virtualization architectures.



# Endpoint DLP With Context & Content Awareness

The most efficient approach to data leakage prevention is to start with contextual control – that is, blocking or allowing data flows by recognizing the authenticated user, security group memberships, data types, device types or network protocol, flow direction, state of media or SSL encryption, the date and time, etc.

There are also many scenarios that require a deeper level of awareness than contextual parameters alone can provide. For example, trusted employees can handle data that contains personally identifiable information (PII), financials, health data, "Confidential", or intellectual property (IP) content. Security administrators gain greater peace of mind and data security compliance by passing all data flows that might contain any of these data elements through content analysis and filtering rules before allowing the data transfer to proceed.

DeviceLock DLP Suite provides both contextual and content-based controls on protected endpoint computers for maximum leakage prevention at minimum cost. Its multi-layered inspection and interception engine provides granular control over a full range of data leakage pathways in both "data-in-use" and "data-in-motion" scenarios to further ensure that no sensitive data is escaping. DeviceLock's content analysis and filtering can be applied to endpoint data exchanges with removable media, Plug-n-Play devices, printers, email, web, Skype and IM sessions, as well as other network communications. In addition, content awareness is fundamental for preventing leakages of "data-at-rest" – a critical DLP function that DeviceLock provides with its Discovery module for inspecting data residing on network shares, storage systems and Windows endpoint computers.

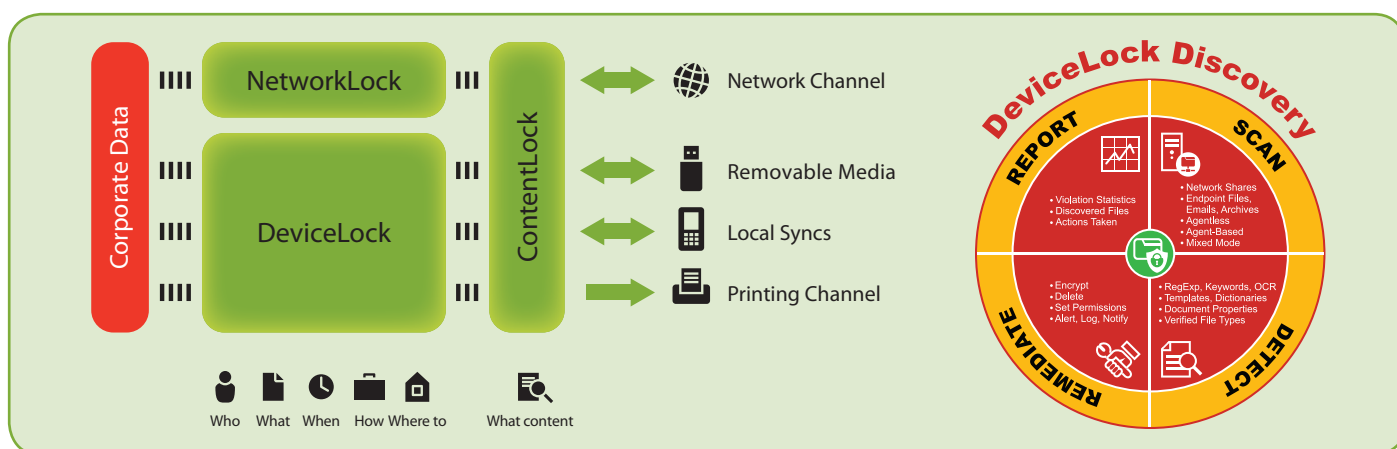
With DeviceLock, security administrators can precisely match access rights to job function with regard to transferring, receiving and storing data on media attached to corporate computers or through network protocols. The resulting secure computing environment allows all legitimate user actions to proceed unimpeded while

blocking any accidental or deliberate attempts to perform operations outside of preset bounds. DeviceLock provides a straightforward approach to DLP management that allows security administrators to use familiar Microsoft Windows Active Directory® Group Policy Objects (GPOs) and snap-in DeviceLock consoles to centrally define DLP policies in Active Directory and automatically push them to distributed agents for continual enforcement on physical and virtual Windows endpoints as well as Apple OS computers.

DeviceLock enables administrators to centrally control, log, shadow-copy, alert and analyze end-user data transfers to all types of peripheral devices and ports, as well as network communications on protected endpoint computers. In addition, its agents detect and block hardware keyloggers to prevent their use in the theft of passwords and other proprietary or personal information. The DeviceLock endpoint agent consumes a minimum of disk space and memory, is transparent as desired to end users, and can operate in tamper-proof mode in case users are also local administrators.

Extending its data protection beyond just "data-in-use" and "data-in-motion" from endpoints, DeviceLock can automatically scan and inspect the file content on Windows servers, other network-accessible data stores and Windows endpoint peripherals in the corporate IT environment in order to detect and remediate data-at-rest storage policy violations.

With its fine-grained contextual controls complemented by content filtering for the most vulnerable endpoint data channels, DeviceLock DLP Suite significantly reduces the risk of sensitive information leaking from employees' computers due to simple negligence or malicious intent. DeviceLock DLP is a security platform that includes data protection policy templates and promotes compliance with corporate information handling rules, as well as legal mandates like HIPAA, Sarbanes-Oxley, and PCI DSS.



- ▶ Core DeviceLock functionality enforces device access policy. NetworkLock extends the ability to control the context of data communications to network protocols and applications. ContentLock provides advanced content filtering rules across the data channels that DeviceLock and NetworkLock manage. DeviceLock Discovery locates documents with exposed sensitive content, provides options to protect them with remediation actions, and can initiate incident management procedures by sending real-time alerts to Security Information and Event Management (SIEM) systems

# Modular Structure and Licensing

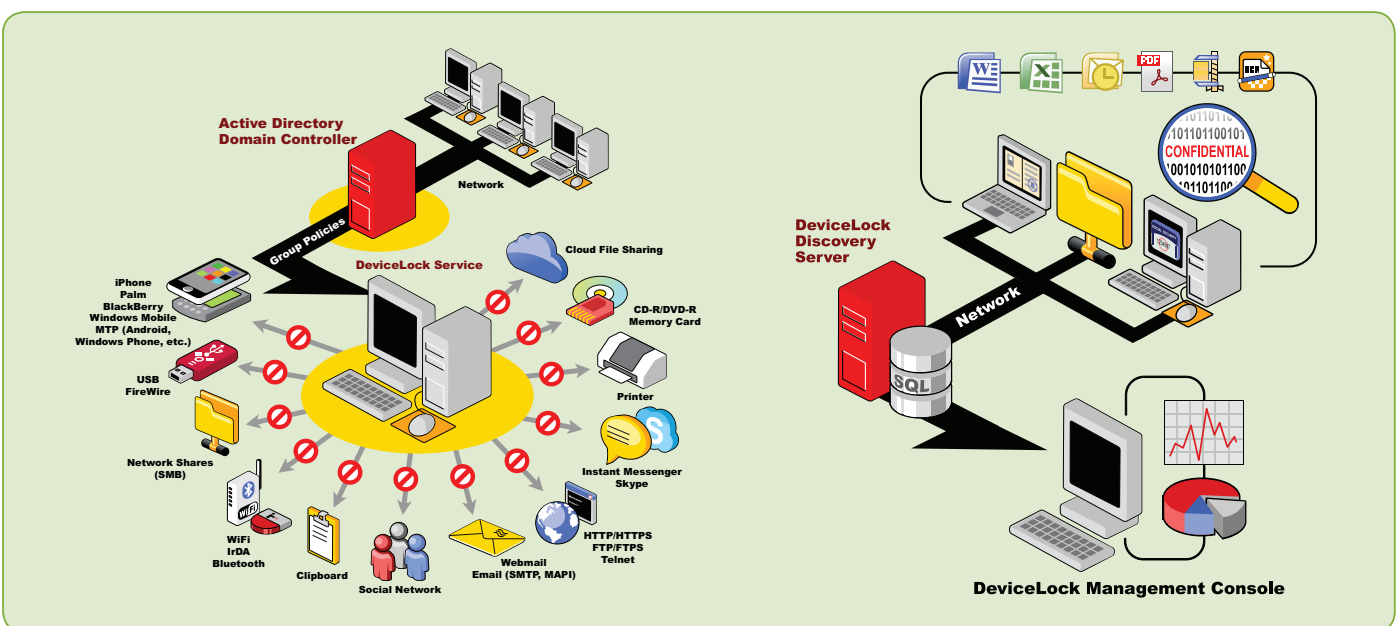
DeviceLock DLP Suite is comprised of a modular set of complementary function-specific components that can be licensed separately or in any combination that meets current security requirements. Existing customers have a secure upgrade path for DeviceLock functionality and the option to expand endpoint security with their choice of modules. Likewise, new customers can incrementally move up to full-featured endpoint DLP by adding functionality as it is needed and budgets allow.

- ▶ The **DeviceLock® Core** component includes an entire set of contextual controls together with event logging, data shadowing and alerting for all local data channels on protected computers. These include peripheral devices and ports, clipboard, tethered smartphones/PDA's, MTP-enabled devices (Android, Windows Phone, etc.), mapped remote virtual devices, printscreens and document printing. DeviceLock Core provides the mandatory DeviceLock Agent's platform, as well as all central management and administrative components for the other functional modules of the DeviceLock Endpoint DLP solution.
- ▶ The pre-integrated **NetworkLock™** component provides contextual control functions over network communications like web, email and more. NetworkLock's port-independent protocol detection and selective control, message and session reconstruction with file, data, and parameter extraction all provide deep packet inspection, as well as event logging, alerting and data shadowing.
- ▶ The pre-integrated **ContentLock™** component implements content filtering of files transferred to and from removable media and Plug-n-Play devices, as well as of various data objects from network communications that are reconstructed and passed to it by NetworkLock. These include emails, instant messages, web forms, attachments, social media exchanges, and file transfers.
- ▶ **DeviceLock® Discovery** is a separate functional component of the DeviceLock DLP Suite that enables organizations to gain visibility and control over confidential "data-at-rest" stored across

their IT environment in order to proactively prevent data breaches and achieve compliance with regulatory and corporate data security requirements. By automatically scanning data residing on network shares, storage systems and Windows endpoint computers inside and outside (with DeviceLock Agent) of the corporate network, DeviceLock Discovery locates documents with exposed sensitive content and provides options to protect them with remediation actions, as well as initiate incident management procedures with real-time alerts to Security Information and Event Management (SIEM) systems and/or data security personnel in the organization.

- ▶ **DeviceLock® Search Server (DLSS)** is an optional add-on component that indexes and performs full text searches on data in the central shadowing and event log database. DLSS is designed to make the labor-intensive processes of information security compliance auditing, incident investigations, and forensic analysis more precise, convenient and time-efficient.

The DeviceLock Core component is mandatory for every installation of the DeviceLock Endpoint DLP that optionally includes NetworkLock, ContentLock and DeviceLock Search Server licensed separately. DeviceLock Discovery, which can be licensed and used independently of any other Suite component, includes the Discovery Server and Discovery Agents and seamlessly integrates with any combination of version 8 series DeviceLock Endpoint DLP components by leveraging the built-in content discovery capabilities of DeviceLock Agents. This modular product structure and flexible licensing scheme enable DeviceLock customers the option to cost-effectively deploy DLP features in stages. They can start with the essential set of port and device control functions incorporated in the core component and then incrementally add function-specific module licenses to activate pre-integrated capabilities and extend the solution with "data-at-rest" content discovery as their security and compliance requirements grow.



- ▶ Enterprises can secure any number of remote endpoints with DeviceLock DLP Suite by leveraging its integration with Active Directory and the Windows Group Policy Management Console. DeviceLock Discovery is automatically scanning data residing on network shares, storage systems, and endpoint computers inside and outside of the corporate network

# DeviceLock Features and Benefits

The DeviceLock DLP Suite delivers essential content filtering and discovery capabilities, as well as reliable control over network communications on top of DeviceLock's best-in-industry context-based controls, whereby access to local ports and peripheral devices on corporate endpoint computers is under a DeviceLock administrator's centralized control.

## Active Directory Group Policy Integration.

DeviceLock's primary console integrates directly with the Microsoft Management Console (MMC) Active Directory (AD) Group Policy interface. As Group Policy and MMC-style interfaces are completely familiar to AD administrators, there is no proprietary interface to learn or training classes needed to effectively manage endpoint DLP policies centrally. The mere presence of the DeviceLock MMC snap-in console on a Group Policy administrator's computer allows for direct integration into the Group Policy Management Console (GPMC) or the Active Directory Users & Computers (ADUC) console without any scripts, ADM templates, or schema changes whatsoever. Administrators can dynamically manage both Windows and Apple OS endpoint settings right along with their other Group Policy—automated tasks. Absent a Group Policy environment, DeviceLock also has classic Windows consoles and a web browser console that can centrally manage agents on any Novell, LDAP, or 'workgroup' IP network of Windows computers. XML-based policy templates can be shared across all DeviceLock consoles.

**Device Whitelisting.** Of the many layers of Windows and Apple OS device security supported by DeviceLock, the USB device model and device ID layers are handled using a whitelist approach. Administrators can scan for and whitelist a specific corporate-issued model of USB drive and DeviceLock will allow only designated users or group members to have access to these at the endpoint. All other unlisted devices and unlisted users are blocked by default. Administrators can even whitelist a single, unique device ID, while locking all other devices of the same brand and model, as long as the device manufacturer has implemented a standard unique identifier.

**Secure Policy Exceptions.** DeviceLock provides a certificate controlled Temporary USB Whitelist Control Panel applet that users can run to securely request short-term use of a USB-mounted device that is otherwise blocked by the local DeviceLock policy...even while the Windows laptop is off the internal network. The specific USB device is mounted and then selected within the applet to generate a unique code that is tied to elements of the device, computer, and user account. The code must be provided to a DeviceLock administrator for evaluation and approval. If approved, a device code is generated for the user that includes the allowed duration of use for up to one month. The rest of the original security policy remains intact and enforced during this authorized "exception device" usage period.

**Network Communications Control.** The NetworkLock module adds comprehensive contextual control over Windows endpoint network communications including network protocols, web applications and listed Instant Messenger applications like Skype. Regular and SSL-tunneled email communications (SMTP, Exchange-MAPI and listed webmail services) are controlled with messages and file attachments handled and filtered separately. NetworkLock also controls web access and other HTTP-based applications with the ability to extract the content from encrypted HTTPS sessions. Web applications, social networks, cloud-based file sharing web access and webmail services are secured separately from the HTTP control for easier configuration, while supported sites, URLs, email addresses and sender/recipient IDs can be whitelisted for approved users within NetworkLock. See the Product Specifications section for a list of supported webmail services, social networks, cloud-based file sharing services and instant messengers controlled by NetworkLock.

Computer Configuration	File Sharing	Configured	Configured
Policies	FTP	Configured	Not Configured
Software Settings	HTTP	Configured	Full Access
Windows Settings	ICQ/AOL Messenger	No Access	Not Configured
Administrative Templates: Policy definitions	IRC	No Access	Not Configured
DeviceLock	Jabber	No Access	Not Configured
Service Options	Mail.ru Agent	No Access	Not Configured
Devices	MAPI	Configured	Configured
Protocols	Skype	Configured	Configured
Permissions	SMB	Configured	Full Access
Auditing, Shadowing & Alerts	SMTP	Configured	Full Access
White List	Social Networks	Configured	Configured
Basic IP Firewall	Telnet	No Access	Not Configured
Content-Aware Rules	Web Mail	Configured	Not Configured
Security Settings	Windows Messenger	Full Access	Not Configured
Preferences	Yahoo Messenger	Full Access	Not Configured
User Configuration			

- ▶ **With NetworkLock you can set user permissions for the network communications used for Web/SMTP/MAPI mail, social networks, instant messaging, file transfers and more.**



**Content Filtering.** Extending DeviceLock and NetworkLock capabilities beyond contextual security, the ContentLock module can analyze and filter the textual content of data copied to removable media drives, to other Plug-n-Play storage devices, to the clipboard, data sent for printing and even data that might otherwise be hidden in screen prints, graphical files or pictures embedded in documents. ContentLock also filters data objects and sessions from within network communications. These include email, web access and popular HTTP-based applications like web mail services, social networks, cloud-based file sharing services, instant messengers, file

attachments, web forms/posts, and FTP file transfers. The content analysis engine can extract textual data from more than 160 file formats and data types and then apply effective and reliable content filtering methods based on pre-built templates of Regular Expression (RegExp) patterns, industry-specific keyword filters (HIPAA, PCI, etc.), document meta properties, verified file types and more. Content detection templates can be modified with numerical threshold conditions and/or combined with Boolean logic operators (AND/OR/NOT) for unmatched flexibility of control.

Description	Type	Action(s)	Applies To	Device Type(s)	Send Alert	Log Event	Profile
Executable	File Type Detection	Deny: Write, Write Encrypted, Read, Read Encrypted	Permissions	Removable	Enabled	Enabled	Regular
HIPAA ICD9	Keywords	Deny: Read	Permissions	Optical Drive	Enabled	Enabled	Regular
Password Protected	Document Properties	Allow: Write, Write Encrypted	Shadowing	Removable	Disabled	Disabled	Regular
Phone Numbers and Emails	Complex	Deny: Clipboard Outgoing Text, Clipboard Incoming T...	Permissions	TS Devices	Disabled	Enabled	Regular
US Social Security Number	Pattern	Deny: Write, Write Encrypted, Read, Read Encrypted	Permissions	Removable	Disabled	Enabled	Offline
US Social Security Number	Pattern	Deny: Print	Permissions, Shadowing	Printer	Enabled	Disabled	Regular

Description	Type	Action(s)	Applies To	Protocol(s)	Send Alert	Log Event	Profile
Bank ABA	Keywords	Allow: Outgoing Messages, Outgoing Files	Shadowing	Social Networks	Disabled	Disabled	Regular
Credit Card Number	Pattern	Deny: POST Requests, Outgoing Files, Encrypted PO...	Permissions	HTTP	Enabled	Disabled	Regular
Images, CAD & Drawing	File Type Detection	Deny: Outgoing Files, Encrypted Outgoing Files	Permissions	FTP	Enabled	Disabled	Regular
Password Protected	Document Properties	Allow: Outgoing Messages, Outgoing Files	Permissions, Shadowing	MAPI	Enabled	Enabled	Regular
PCI GLBA	Keywords	Deny: Outgoing Messages, Outgoing Files	Permissions	Skype	Disabled	Enabled	Offline
Phone Numbers and Emails	Complex	Deny: POST Requests, Outgoing Files, Encrypted PO...	Permissions	File Sharing	Enabled	Enabled	Regular
US Phone Number	Pattern	Deny: Outgoing Messages, Outgoing Files	Permissions	Yahoo Messenger	Enabled	Enabled	Regular

▶ The configuration screens here show high-level samples of content-aware rules per specific device (above) and per specific network protocol (below). ContentLock's template-driven interface eases definition of content-aware filtering policies.

**Host-Resident OCR.** Complementing content filtering of textual-based data objects, a built-in optical character recognition (OCR) engine allows DeviceLock DLP to quickly, efficiently and accurately extract and inspect textual data from pictures in documents and graphical files of many image formats. With 26 languages recognized, this highly efficient OCR engine uses regular expressions, keyword dictionaries, and other advanced methods to improve recognition and deliver the ability to discover and protect exposed confidential data in information assets presented in graphical form. Unique to DeviceLock DLP is that the OCR module runs in each of its enforcement oriented components: DeviceLock Agent, DeviceLock Discovery Server and DeviceLock Discovery Agent. This distributed OCR architecture tremendously improves the overall performance of the solution, because the graphical objects stored on endpoints can be scanned and inspected by local host-resident OCR modules, which in turn significantly decreases the load to the Discovery Server, as well as reduces the "scan" traffic on the corporate network.

**Content Discovery.** DeviceLock Discovery enables organizations to gain visibility and control over confidential "data-at-rest" stored across their IT environment in order to proactively prevent data breaches and achieve compliance with regulatory and corporate data security requirements. By automatically scanning data residing on network shares, storage systems and Windows endpoint computers inside and outside of the corporate network, DeviceLock Discovery locates documents with sensitive content and provides options to remediate them, as well as initiate incident management procedures with real-time alerts to SIEM

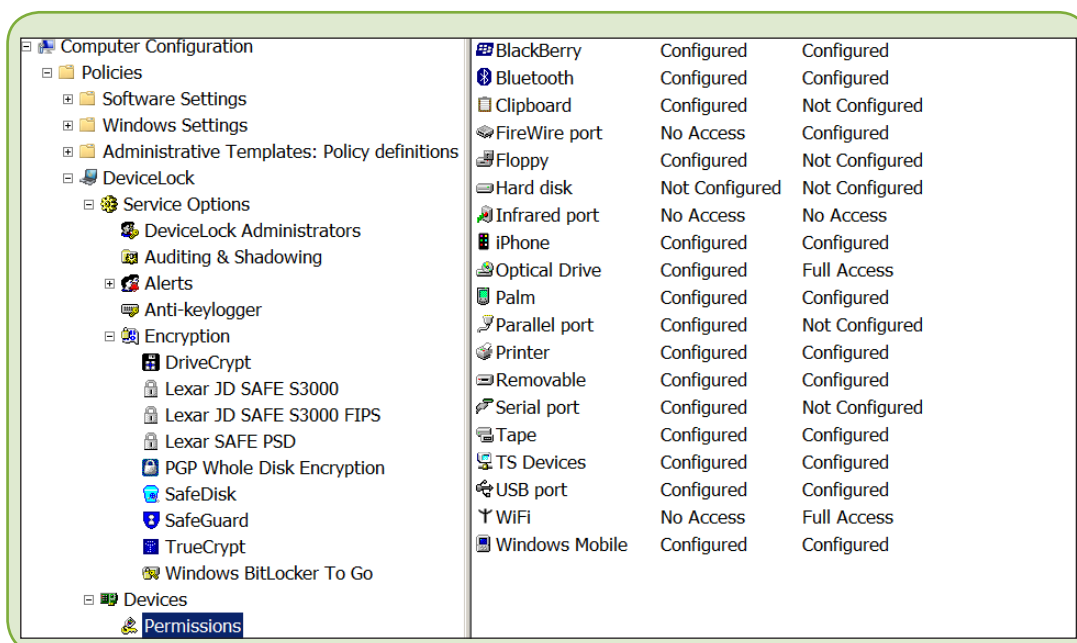
systems and data security personnel. By using the full set of ContentLock features that now include OCR capabilities, DeviceLock can discover textual data in more than 120 file formats and 40 types of nested archives, as well as within pictures in documents and graphical files. Depending on the network topology and specifications, DeviceLock Discovery can perform scans in agentless, agent-based and mixed scanning modes. The scans can be initiated manually or configured to run on a schedule while targeting corporate computers, network shares and storage systems in the organization. DeviceLock Discovery Agents can be remotely installed on and removed from target computers by DeviceLock Discovery Server in a fully automatic and transparent manner. When used together with other DeviceLock DLP components, DeviceLock Discovery can also utilize the built-in discovery capabilities of DeviceLock Agents for scanning data stored on their host computers and accessible network shares.

**Virtual DLP for BYOD Devices.** DeviceLock's Virtual DLP features provide the ability to protect any BYOD device against insider data leaks when using leading desktop and application virtualization solutions like Citrix XenApp/ XenDesktop, Microsoft RDS and VMware Horizon View. Running on a VDI Host or Terminal Server, DeviceLock "remotes" contextual and content-aware endpoint DLP controls to the connected remote BYOD device to create a virtual endpoint DLP agent that prevents uncontrolled data exchanges to local peripherals, hosted applications and network connections of the BYOD device while "in session". This approach unifies DeviceLock DLP across physical and virtual Windows and BYOD environments.

**Clipboard Control.** DeviceLock enables administrators to effectively block data leaks at their earliest stage—when users deliberately or accidentally transfer unauthorized data between different applications and documents on their local computer through the Windows clipboard and print-screen mechanisms. DeviceLock can selectively control user/group access to objects of different data types that are copied into the clipboard. These types include files, textual data, images, audio fragments (i.e. captured with Windows Sound Recorder), and even data of "unidentified" types. In addition, content of textual data copied via the clipboard can be monitored and filtered. DeviceLock DLP separately, independently and uniquely protects and filters clipboard operations when redirected to a remote BYOD device in a terminal session to provide Virtual DLP. To prevent one of the oldest methods of data theft, screenshot operations can be blocked for specific users/groups. These include the Windows PrintScreen keyboard function, and the screen capture features of third-party applications. If screenshots

are allowed contextually by policy, ContentLock’s advanced OCR content inspection can filter the textual content of captured screen images according to DLP policies.

**Mobile Device Local Sync Control.** Administrators can use DeviceLock’s patented Local Sync control technology to set granular access control, auditing, and shadowing rules for data that Microsoft Windows Mobile®, Apple iPhone®/ iPad®/iPod touch® or Palm® mobile devices exchange through local synchronizations with Windows endpoints. Permissions are uniquely granular and define which "types" of mobile device data (files, pictures, emails, contacts, calendars, etc.) that specified users/groups are allowed to synchronize between managed endpoints and personal mobile devices regardless of the connection interface. Presence detection, access control and event logging for Android®, Windows Phone and other MTP devices, as well as BlackBerry® smartphones are specifically supported at the device type level.



- ▶ **DeviceLock MMC snap-in for Group Policy Management: DeviceLock administrators have full central control over access, audit, shadow, alert, and content rules covering potential local data leakage channels across the entire Active Directory domain forest.**

**Printing Security.** DeviceLock puts local and network printing from Windows endpoints under the strict control of administrators. By intercepting Print Spooler operations, DeviceLock enables administrators to centrally control user access and content of printed documents sent to local, network, and even virtual printers from DeviceLock-protected endpoints. In addition, for USB-connected printers, specified printer vendor models and/or unique printer device IDs can be allowed for designated users and groups. Printing events can be logged and the actual print job data can be shadow-copied in searchable PDF format, collected, and stored centrally for audit and post-analysis.

**Offline Endpoint Security.** Administrators can define different online vs. offline security policies for the same user account based on a Windows laptop's network status.

For example, one could disable Wi-Fi when docked to the wired corporate network to avoid network “bridging” data leaks and then to enable Wi-Fi when undocked. Or, NetworkLock can be implemented when offline to mimic perimeter network based DLP settings or other security conditions when the laptop is "in the wild."

**Tamper Protection.** The configurable 'DeviceLock Administrators' feature prevents tampering with DeviceLock policy settings locally on Windows and Apple OS even by users with local system administration privileges. With this feature activated, only designated DeviceLock administrators working from a DeviceLock console or Group Policy Object (GPO) Editor can uninstall or upgrade the agent or modify DeviceLock policies in any way.

# DeviceLock **Observation** Mode

DeviceLock is often used at first to collect an audit record of the data objects that end users are moving to removable media, BD/DVD-ROMs, PDAs, through Wi-Fi, and via web email, web forms etc. DeviceLock audit/shadow records are useful in determining the current level of non-compliance exposure and can be used to provide a non-repudiable audit trail for compliance officials. When a leak is discovered, attempted, or even suspected, DeviceLock provides tools to capture and forensically view objects and associated logs for use as evidence or for corrective access control or content policy action.

**Audit Logging.** DeviceLock's auditing capability tracks user and file activity for specified device types, ports and protocols on a managed computer. It can pre-filter auditable events by user/group, by day/hour, by true file type, by port/device type/protocol, by reads/writes, and by success/failure events. DeviceLock employs the standard event logging subsystem on Windows or Apple OS. Within DeviceLock's column-based viewers, logs can be sorted by column data and filtered on any string-based criteria with wildcard operators to achieve a desired view of the captured audit data. Logs can also be exported to many standard file formats for import into other reporting and log management solutions.

**Data Shadowing.** DeviceLock's data shadowing function can be set up to mirror all data copied to external storage devices, printed or transferred through serial, parallel, and network ports (with NetworkLock add-on). DeviceLock can also split ISO images produced by CD/DVD/BD burners into the original separated files upon auto-collection by the DeviceLock Enterprise Server (DLES) service collection agents. A full copy of the files can be saved to a secure share populated for forensic review. Shadow data can be pre-filtered by user/group, day/hour, file type, and content to narrow down what is captured and then collected. DeviceLock's audit and shadowing features are designed for efficient use of transmission and storage resources with stream compression, traffic shaping for quality of service (QoS), local quota settings, and optimal DLES server auto selection.

**Agent Monitoring.** DeviceLock Enterprise Server service agents can monitor remote Windows computers in real time by checking the DeviceLock endpoint agent status (running or not), version, policy consistency and integrity. The detailed information is written to the Monitoring log.

**Alerting.** DeviceLock provides both SNMP and SMTP based alerting capabilities driven by DeviceLock DLP endpoint events for real time notification of sensitive user activities on protected Windows endpoints on the network.

**Report Plug-n-Play Devices.** The PnP Report allows administrators and auditors to generate a report displaying the USB, FireWire, and PCMCIA devices currently and historically connected to selected Windows computers in the network. This report also allows for efficient population of the USB whitelist as a first step to adding select device models or unique devices to DeviceLock access policies.

**Graphical Reporting.** DeviceLock can generate graphical "canned" reports in HTML, PDF or RTF format based on analysis of DLES-collected audit log and shadow file data. These reports can be auto-emailed to a data security management list or compliance officers when generated.

**Data Search.** The separately licensed DeviceLock Search Server (DLSS) module enhances the forensic abilities of DeviceLock by indexing and allowing comprehensive full-text searches of centrally collected DeviceLock audit log and shadow file data. The DLSS aids in the labor-intensive processes of information security compliance auditing, incident investigations, and forensic analysis by making fact finding faster, more precise, and more convenient. The DLSS supports indexing and searching in more than 80 file formats. Language independent queries take only seconds to execute once the data has been indexed. 'Stemming' and 'noise-word filtering' are turned on by default for words and phrases in English, French, German, Italian, Japanese, Russian and Spanish. DLSS uses "all words" (AND) logic with special character wildcards to refine or expand searches. Default results are sorted by 'hit count', though 'term weighting' or 'field weighting' are options. DLSS also supports full-text indexing and searching of printouts to audit virtually all document printing.

"We found DeviceLock to be the most cost-effective solution for endpoint device management after months of product evaluation. It has proven itself to be one of the biggest 'bangs for the buck' in our arsenal of information security controls."

Data Security Specialist, University of Alabama Health System

# Product Specifications

## Infrastructure (Installable) Components

- ▶ DeviceLock Agent (Windows and Apple OS X)
- ▶ DeviceLock Discovery Agent (Windows)
- ▶ DeviceLock Enterprise Server
- ▶ DeviceLock Content Security Server (Discovery Server, Search Server)
- ▶ Management Consoles: DeviceLock Group Policy Manager (MMC snap-in to Microsoft GPMC), DeviceLock Management Console (MMC snap-in), DeviceLock Enterprise Manager, DeviceLock WebConsole w/Apache

## Ports Secured

- ▶ **Windows:** USB, FireWire, Infrared, Serial, Parallel
- ▶ **Mac:** USB, FireWire, Serial
- ▶ **Session terminal/BYOD:** USB, Serial

## Device Types Controlled (Partial List)

- ▶ **Windows:** removable storage (flash drives, memory cards, PC Cards, eSATA, etc.), CD-ROM/DVD/BD, floppies, hard drives, tapes, Wi-Fi and Bluetooth adapters, Apple iPhone/iPod touch/iPad, Windows Mobile, Palm OS, BlackBerry, MTP-enabled devices (such as Android and Windows Phone), printers (local, network and virtual), modems, scanners, cameras
- ▶ **Mac:** removable storage, hard drives, CD-ROM/DVD/BD, Wi-Fi and Bluetooth adapters
- ▶ **Session terminal/BYOD:** mapped drives (removable, optical, hard), USB devices

## Clipboard Control (Windows)

- ▶ Inter/intra-application copy-paste operations via Windows clipboard
- ▶ Copy operations between host and guest OS clipboards
- ▶ Data transfers between Windows and desktop/application session clipboards
- ▶ Screenshot operations (Print Screen and 3rd party applications)

## Network Communications Controlled

- ▶ **Email:** SMTP/SMTPS, Microsoft Outlook (MAPI)
- ▶ **Webmail:** AOL Mail, Gmail, Hotmail/Outlook.com, GMX.de, Web.de, Yahoo! Mail, Mail.ru, Rambler Mail, Yandex Mail, Outlook Web App/Access (OWA)
- ▶ **Social Networking:** Facebook (+API), Twitter, Google+, LinkedIn, Tumblr, MySpace, Vkontakte (+API), XING.com, LiveJournal, MeinVZ.de, StudiVZ.de, Disqus, LiveInternet.ru, Odnoklassniki.ru
- ▶ **Instant Messengers:** Skype, ICQ/AOL Messenger, IRC, Jabber, Windows Messenger, Yahoo! Messenger, Mail.ru Agent
- ▶ **Cloud File Sharing Web Services:** Amazon S3, Dropbox, Google Docs/Google Drive, OneDrive/SkyDrive, Rusfolder.com, RapidShare, Yandex.Disk
- ▶ **Internet Protocols:** HTTP/HTTPS, FTP/FTPS, Telnet
- ▶ **Other:** SMB disk shares, Skype media calls

## Content-Aware Controls

- ▶ **Controlled Channels:** storage devices (removable, floppy, optical drives), printers (local, network, virtual), clipboard (Windows, desktop/application session), network communications (email, webmail, IM, social networks, cloud file sharing services, HTTP/HTTPS, FTP/FTPS)

- ▶ **Content Types Controlled:** textual content, data types
- ▶ **Textual Content Objects:** parsable file formats (120+) & archives (40+), textual data (in emails, messages, web forms, etc.), images (OCR processing), Oracle IRM-sealed documents, unidentified binary data
- ▶ **Textual Content Detection Methods:** keywords and keyword dictionaries (160+ prebuilt, user-configurable) with morphological analysis (English, French, German, Italian, Russian, Spanish, Catalan Spanish, Portuguese, Polish), RegExp templates (90+ prebuilt, user-configurable)
- ▶ **Controlled Data Types:** verified file types (5300+), file/document properties, embedded image properties, clipboard data types (files, textual data, images, audio, unidentified), sync protocol objects (Microsoft ActiveSync®, WMDC, Apple iTunes®, Palm® HotSync), Oracle IRM-sealed documents (security contexts)
- ▶ **Content-Aware Data Shadowing:** for all controlled channels and content types
- ▶ **OCR Features:** endpoint-resident OCR processing, 26 languages, integrated DeviceLock keyword dictionaries and regular expressions, rotated/mirrored/inverted images

## Encryption Integration

- ▶ **Windows:** Windows BitLocker To Go™, Sophos® SafeGuard Easy®, SecurStar® DriveCrypt® (DCPPE), TrueCrypt®, PGP® Whole Disk Encryption, Infotecs SafeDisk®, Lexar® Media S1100/S3000
- ▶ **Mac:** Apple® OS X FileVault

## Content Discovery

- ▶ **Targets:** Windows endpoint computers (file systems, email repositories, mounted peripherals), network shares, storage systems
- ▶ **Scan modes:** agentless, agent-based, mixed
- ▶ **Scan operations:** manual and scheduled automatic task execution
- ▶ **Remediation actions:** Delete, Safe Delete, Delete Container, Set Permissions (for NTFS files), Log, Alert, Notify User, Encrypt (using EFS for NTFS files)
- ▶ **Other features:** static & dynamic target list configuration, discovery reports, automatic on-demand Discovery Agent installation/removal

## System Requirements

- ▶ **Agent:** Windows NT/2000/XP/Vista/7/8/8.1/Server 2003-2012 R2 (32/64-bit); Apple OS X 10.6.8/10.7/10.8/10.9 (32/64-bit); Microsoft RDS, Citrix XenDesktop/XenApp, Citrix XenServer, VMware Horizon View; VMware Workstation, VMware Player, Oracle VM VirtualBox, Windows Virtual PC; CPU Pentium 4, 64MB RAM, HDD 100MB
- ▶ **Consoles:** Windows 2000/XP/Vista/7/8/8.1/Server 2003-2012 R2 (32/64-bit); CPU Pentium 4, 2GB RAM, HDD 600MB
- ▶ **DeviceLock Enterprise Server, DeviceLock Discovery Server, DeviceLock Search Server:** Windows Server 2003-2012 (32/64-bit), Microsoft RDS, Citrix XenServer, VMware vSphere Desktop; 2xCPU Intel Xeon Quad-Core 2.33GHz, RAM 8GB, HDD 800GB (if hosting SQL DB, less if not); MSEE/MSDE/SQL Express or MS SQL Server



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