

## TECHNICALS

### SYSTEM REQUIREMENTS

#### HARDWARE

Physical: Intel Xeon Server Quad Core or equivalent

Virtual: 1 Virtual Socket + 4 Virtual Core min.

8GB RAM Minimum (more if SQL Server on same server)

80GB HDD Minimum (more if SQL Server on same server)

#### OPERATING SYSTEM

Windows Server 2012r2 and above 64 bit OS support only

#### INTERNET INFORMATION SERVICES

IIS Version 8.0 and above supported

#### MICROSOFT .NET FRAMEWORK

.net Framework 4.5.2 and above

#### DATABASE

SQL Server 2012r2 and above

Express, Standard & Enterprise versions supported

#### SSL CERTIFICATE

Standard or OpenSSL compatible SSL Certificate

#### INTERNET BROWSER SUPPORT

Mozilla Firefox

Microsoft Internet Explorer 11 Microsoft Edge

Google Chrome (recommended)

#### ORGANIZATION MANAGEMENT

Static Groups

Group by Subnet and IP Address Range

Configure Group Devices to Auto-Join Domain

Auto-Generate host name during discovery and group inheritance process

#### GROUP ORGANIZATION ARCHITECTURE

Up to 10 levels of nested groups

Provides easy administration and configuration of group nodes

Tree view & list view based groups

View devices/terminal nodes by IP Address, MAC or Host Name

Drag-and-drop of nodes between groups

Context menu operations for Organization, Group/Subgroup and node level

Online & offline status indication

Differentiation of devices by OS (Linux/ Windows/Mobile OS) and device type (Notebook, Thin client, Zero Client & Mobile)

Group settings, group profile, group inheritance and zero configuration features supported

#### GROUP LEVEL FUNCTIONS

The following device settings are configurable at group level for group configuration profile, can apply changes to effect

instantly or by scheduling.

Network: Ethernet, Wi-Fi and Wi-Fi security settings

Domain: Workgroup settings and Join Domain

Peripherals: Keyboard, Mouse, Display, Printer settings

User Interface: Wallpaper, Taskbar, Screen Saver and Auto-logon

System: Date and Time, Power settings and Ram Disk

Administration: User management, Services management, Agent settings, Performance Management setting (History Cleaner of Browser and Windows, Task Scheduler and Start-up Application List)

Security: Write Filter, Firewall, Port Settings, and Proxy

Mobile settings: Integrated Peripheral on/ off control for Camera, Bluetooth, Wi-Fi lock/ unlock, Data Wipe settings

Upgrade: Remote Software Installation

& Uninstallation, File & Folder Transfer, File import and Software Restriction configuration

Patch Management: Fusion Patch Management, WSUS-based Patch Management

Connections: RDP, RDS, Citrix ICA, VMware View/PCoIP, Browser and various other connections

Remote Settings : Shutdown, Restart, Log off, Lock Workstation, Wake-On-LAN, Send message, Remove device, shadowing using VNC & RDP, Clone & Deploy Image & Properties, Client Data Synchronization, Service mode, Projector On/Off, Execute Remote Command

Shadowing: Single VNC with Proxy, RDP w/o proxy

Multi-Device Shadowing: 'Video-Wall' Multi- View VNC w/o proxy

#### GROUP INHERITANCE

Configuration of default device settings supported at the group level for inheritance by devices

Device Settings: Keyboard, Mouse, Display, Date Time, Taskbar settings, Port security settings, Firewall settings, Remote Agent Settings, Screen Saver Setting, Proxy Setting and Date Time Format, Time Zone Settings, Time Server Synchronisation Settings, Connections, Rename Group, Lock Computer

#### ZERO CONFIGURATION FEATURES

Group wise auto hostname generation Group wise Join Domain

Repository Connection association VNC Password association

#### DEVICE DISCOVERY

Agent-less device discovery: Scan in LAN & Domain Server, Remote Installation of agent, Registration / enrolment

#### USER MANAGEMENT

User roles & user creation, user role based access rights, user based access rights configuration, Group Wise User Association

Access control system

Supports local and ADS domain user authentication. Integrated ADS Authentication

Local user access using password protection, User privilege levels, User credentials are stored using AES 256 bit

## TECHNICALS

encryption

User session management including single instance restriction, automatic expiry of idle session

### GENERAL FEATURES

Dashboard Widgets

Main Widgets: Computer Status, Computers By Operating System, Alerts, Patch Summary, Software Summary, Task management

Asset inventory Widgets: Software Summary, Computer By make And Model, Hardware Asset By Type, Software and Hardware changes, Hardware Compliance Status, Inventory Scan Status, Hardware Asset By Type

Master data and Fusion client license management

Heartbeat mechanism to track status of devices and its peripherals

Automatic device discovery initiated from server or client

Client synchronization/Manual refresh and Modular synchronization

Database backup and restore

Real-time Communication using TCP Protocol

Desktop/Server OS Support

### OS MANAGEMENT COMPLIANCE

Windows XP, 7, 8, 10 (Pro and Enterprise) Windows Embedded Standard 7 Windows Embedded Standard 8 Windows 10-IoT Enterprise

VXL Embedded Linux Gio6

Lenovo Embedded Linux LeTOS v2 Windows POS (except CE based)

### SYSTEM SETTINGS

(SOME OPTIONS ARE VIEW ONLY)

Agent based device discovery: Discovery using TCP by IP range, Subnet Range, Discovery using UDP Broadcast

Auto Discovery by DNS A/CNAME, By DHCP Option Value

### GENERAL INFORMATION

General: Hostname, Group Name, IP Address, MAC Address, OS Name, OS Version, Manufacturer, Model, Serial Number, Image Build No, Keyboard Status, Mouse Status, Display Status, Agent Version, Logged In

User, Last Heart Beat, CPU, RAM Size, Disk Size, Keyboard and Mouse Port

System: Network, Keyboard, Mouse, Display, Printer, Date Time, CD/DVD settings, User Details, Internet Settings, Firewall, Port Settings

### HARDWARE & SOFTWARE INFORMATION

Hardware: OS information, Computer system information, Bios information, Processor information, Motherboard details, Hard

Disk details, RAM information, Graphics Information, Network Adapter Information, Audio device Information, Device manager Information, Port Details, Keyboard Details, Mouse Details

List of all software installed with installation information

List of all installed Windows patches

### DEVICE STATUS

System status: On/Off, Keyboard, Mouse, Display, Write-filter, Storage memory status

### SYSTEM LOGS

Event logs: Application, Security & System Logs

Hardware changes or modification logs Software modification logs

System Dashboard (RAM Memory utilization, CPU Utilization)

### NETWORK

Ethernet settings (DHCP, Manual (Hostname, Domain, IP, Subnet, Gateway, Domain, WINS, DNS))

Wireless settings (DHCP, Manual (Hostname, Domain, IP, Subnet, Gateway, Domain, WINS, DNS))

Wireless Security Properties (SSHID, Network type, Encryption Type, Network Key, Auto connect)

Computer name and Domain setting

### PERIPHERALS

Keyboard setup (Repeat delay, Repeat rate, Keyboard locales)

Mouse setup (Double click Speed, pointer speed, LH/RH configuration)

Display & Dual Display setup (Resolution & Frequency, Colour depth, dual display orientation, dual display clone & extended mode settings)

### PRINTERS

Add, Delete, View & Edit local, IP and Network printers/settings

Date/Time settings

Time and Date Setup, Time zone settings, Network time synchronization settings

Date & Time Format Settings

### POWER MANAGEMENT

Power Setting (Shutdown procedure, Power Plans / Schemes, Display, Sleep, Hard disk)

Memory configuration

Ram disk configuration (size)

### USER INTERFACE SETTINGS

Wallpaper settings

User interface settings (Auto logon, Desktop GUI operation mode)

Screensaver settings (Password, Timeout, Themes)

Taskbar settings

### USER MANAGEMENT

User Configuration & management (View users, Add Users)

Service management

Listing of services with details & management (Start/Stop/Restart)

### PERFORMANCE MANAGEMENT

Start-up application settings, Registry backup & restore, Task

## TECHNICALS

Scheduler, History & Temp File Cleaner

### REMOTE AGENT MANAGEMENT

Agent Settings Agent Upgrade File system

Write filter operations (EWF, FBWF settings, Add/Remove File & Folders Exclusion)

Network

Firewall settings Proxy settings

### SYSTEM

Port Locking for USB, Serial, Parallel ports, Integrated WIFI, Camera, Bluetooth lock setting, Data wipe Settings

### SOFTWARE

Software Restriction (S/W Installation/ Uninstallation Restriction, Execution of Application Restriction)

### FILE SYSTEM

Write filter operations (EWF, FBWF settings, Add/Remove File & Folders Exclusion)

### NETWORK

Firewall settings (Add/Edit/Delete exceptions, ports & applications)

Proxy settings

### UPGRADE MANAGEMENT

Software upgrade management

Software installation and uninstallation File/Folder Transfer and Transfer file and

Execute

Import File

Remote application and remote command execution

### PATCH MANAGEMENT

Windows Update (List of installed patches, Missing Patches, Failed Patches, Install & Un- install Patches)

Shows System Health Status, Highly Vulnerable Systems, Vulnerable System, Healthy Systems

Distribution Server for Patch Management

### CONNECTION MANAGER

Microsoft RDS/RDP (Windows)

Citrix ICA/Receiver (Windows & Linux), Citrix PNAgent (Windows & Linux), VMware View (Windows & Linux), RDesktop (Linux), XFreeRDP (Linux), Internet Explorer (Windows), Google Chrome (Linux), Mozilla Firefox (Linux) and Global Connection Settings (Windows & Linux)

Note: Linux denotes VXL Gio Linux or Lenovo LeTOS thin client operating system.

### REMOTE CONTROL

Remote control (shutdown, restart, Log off, workstation lock, Remove Agent, Disable Fusion agent, Wake on LAN)

Synchronize client settings, Capture partitions

& drive structure, Clone and Deploy Image & Properties

Remote text messaging to client

Remote Shadowing & control using VNC and Microsoft RDP  
Service mode of operation

### IMAGE AND TEMPLATE MANAGEMENT

Device properties clone, deployment & archival

Configuration templates: creation and archival for the following set of configurations is available Keyboard, Mouse, Display, Printers, Date Time, Taskbar, Screen Saver, Users, RAM disk setting, Write filter settings, Port security settings, Firewall settings

Clone Image and Deploy Image

### REPOSITORY MANAGER

Repository Connection manager - FTP Connection manager, Support for all FTP scenarios or network topologies such as Central and Distributed FTP Settings for File upload and download

SFTP : Support for FTP Over SSL, Implicit and Explicit for Software upgrade, patch management, wallpaper features

File management for: Cloned Image upload, Deploy Image download, Software upgrade and patch management download, File transfer download, Wallpaper download, Screen saver download, SSL certificate download

### MONITORING

Site level & Group level Monitoring: Device on/off status, peripherals on/off & operations status, Write filter status

Activity monitor: Scheduled activity status

Dash Board: Consolidated status of client on/off, CPU, RAM memory, HDD Storage, Hardware Status (Display, Keyboard, and Mouse)

Health Monitoring: CPU, RAM and Hard disk Utilization Dashboards as well as History logs

Alerts: IP change, Hostname change, HDD storage status, USB Mass Storage, Hardware & Software Changes, Internet URL monitoring

Heartbeat: Information sent with heartbeat includes IP Address, MAC Address, Keyboard connection status, Mouse connection status, display connection status, Write filter status

Dashboard Widgets : Computer Status, Computers By Operating Systems, Distribution Server Status, Alerts, Patch Summary, Software Summary, Task management, Hardware Asset By Type, System Health Status, Computer By make And Model, Software and Hardware changes, Hardware Compliance Status, Inventory Scan Status

Information Bar : Group, Task and Node information

### TASK MANAGEMENT

Task manager with master detail view for tasks under execution, scheduled tasks and status of executed tasks

Creation of tasks, grouping of tasks with linking and dependency, task sequencing, templates, task scheduling for later execution and recursion

### REPORTS AND AUDIT LOGS

General Reports: Alerts Report, Write Filter Report, Schedule history report, Email Report

Status Reports: Client Status Report, Hard Disk Storage Status Report

## TECHNICALS

Inventory Reports: Hardware Inventory Report, Software Inventory Report, Hardware Inventory Summary, Software inventory Summary, Hardware and Software Inventory Summary, Hardware modification report, Software Modification Report

Compliance reports: Software Metering Report, Unlicensed Client report, Unauthorized Client report

Monitoring reports: Device monitoring and Application monitoring report

Audit Logs: Boot, Application, Hardware, Schedule, Idle State, Screen Saver, Software Detail, Server Event, and Internet History

### ASSET MANAGEMENT

Asset Management dashboard

Hardware asset management, master data entry, asset tracking, compliance

Software asset management, master data entry, asset tracking, compliance

### PATCH MANAGEMENT

Patch Summary dashboards, Patch

wise view, System wise view, Patch synchronisation, Patch Approval, Patch Distribution, installation, Patch management reports

Patch download from Microsoft repository, download manager, download queue management.

Patch management for Windows (List of installed patches, Missing Patches, Failed Patches, Install & Un-install Patches), System

Health Status( Highly vulnerable Systems, Vulnerable System, Healthy Systems)

Patch management master data update feature to add latest windows security and general patch update information

Distribution agent for Patch Management

### SOFTWARE MANAGEMENT

Software summary dashboards, Software wise view, System wise view, Software inventory synchronisation, Approval, Distribution, installation, uninstallation, Software management reports

Software repository manager

### SCHEDULING ENGINE FEATURES

Scheduling support for software configuration, software updates band upgrades, patches and application installation/removal

Scheduling based on day, date, time, next reboot etc.

### MAILER ENGINE

For auto email communications of status reports and alerts

Create users, user groups, associate alert reports to be mailed, frequency of mailing etc

Can configure all report types and supported alerts to be emailed to configured users

### GLOBAL SETTINGS

Tree view & Group management configuration

Heartbeat configuration and Batch Schedule

Communication options (HTTP/HTTPS) for LAN/WAN/Internet

Global settings for application monitoring & service management

Global settings for software inventory master

Image capture and deployment global configuration

Image & properties backup and restore configuration settings

Remote installation and History report settings

Database backup and restore settings: automated / periodic database backup

Mailer engine SMTP server configuration, user management and settings

### MOBILE DEVICE MANAGEMENT

#### LICENSING

Perpetual Licensing or SaaS Licensing

#### SUPPORTED DEVICES

Android 5.x 6.x 7.x 8.x Android 4.x Legacy SamsungKNOX devices Apple IOS devices

#### ENROLLMENT

Via Web Portal Downloadable App DEP (IOS only)

API

Bulk upload

#### ENTERPRISE MANAGEMENT

Mobile Device Management (BYOD/Company Owned/Single Use)

Mobile Application Management Mobile Content Management

Mobile Email Management

Mobile Asset & Audit Management Mobile Browsing Management

#### ENTERPRISE INTEGRATION

Directory Services (Active Directory/LDAP ) Certificate Authorities (Microsoft CA, SCEP)

Productivity(Mail, Calendar, Contacts) Applications(Office 365)

VPN

Web Security

Network Access Control

#### SECURITY FEATURES

Password policy/protection/reset Remote wipe

Remote lock

OS Integrity (Device Rooting/Jailbreak detection)

Configure/disable Wi-Fi

Configure VPN/Proxy/Gateway Device/data Encryption

Malware detection

Firewall

Support for single sign-on

Separate User Data from Corporate Data OS mobile Updates

## TECHNICALS

### POLICY MANAGEMENT

Compliance management and tracking  
User, App/device restrictions & lockdown functions  
Certificate management  
User accounts/ Providers management Full Remote Control  
Lockdown - Restricted Kiosk mode USABILITY:  
Multi-user support  
Multi-language support

### MANAGEMENT/REPORTING

Web-based admin console  
API for 3rd party management integration Device-level information  
Real-time dashboard  
Alerts  
Usage monitoring  
GPS Location tracking using Maps Geofencing  
Locate phone

## HP ANYWARE ZERO-CLIENT MANAGEMENT

### DEVICE MANAGEMENT

- Full featured device information dashboard
- Device Discovery: Auto discovery of devices
- Device Inventory: List, Synchronization, Add, Edit & Delete
- Device details: Device dashboard, Device configuration
- details, device hardware & software information
- Device control commands: Restart, Shutdown, Factory Reset, Inventory sync.
- Device monitoring: On/off, connection status etc.

### DEVICE CONFIGURATIONS

- NTP, TimeZone, Keyboard layout/Variant (including repeat delay, repeat rate), Mouse, Date & Time format,
- Networking, Audio, Power, Imaging, Branding & Assets, Certificates, UI Language selection, Log level settings, OTA Updates & USB device management

### DEVICE COMPLIANCE

- Support for both default & desired configurations, Device baseline configuration/policies creation, compliance tracking & monitoring, compliance report

### TRUSTED BROKER CONNECTIONS

- Management of multiple trusted broker connections and support for related configuration settings, update & delete.
- Create/Delete/Manage trusted broker connection and related settings.
- Certificate configuration & Connection security mode

### TRUSTCENTER CONFIGURATION

- Create and manage Trustcenter service account.
- New account password change
- Automation of Service account creation
- Automatic sync for predefined interval
- TrustCenter connection status
- Multiple TrustCenter connection support
- Multi-tenancy Support to connect to desired Trustcenter Installation

### MANAGEMENT SOFTWARE FEATURES

- Multi level OU / Group management support, Default Configurations for Group inheritance
- Task management, Template management, Task & Template Scheduling, Recurring tasks
- Device Asset Inventory management, tracking & reports.
- Incident management including Device Monitoring & Preventive maintenance.
- OTA upgrade patch management

### DASHBOARDS, REPORTS & AUDIT LOGS

- Device health monitoring
- Zero client devices logs import & corresponding reporting.
- Management software reports and logs including asset management reports & audit logging.
- Trustcenter server logs, Support bundle imports.
- Dashboards, Log analytics, Mailer Engine for auto emailing of report's

### RBAC & USER GROUPS

- Multiple Administrator Accounts & MFA
- Admin User roles (configurable user rights)
- Admin User Active Directory integration
- Concurrent administrative user access

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## WWW.VXLSOFTWARE.COM

### RECOMMENDED SERVICES

VXL offers a hosted offering of its management software  
Please enquire if this is of interest.

### TECHNICAL SUPPORT & PRODUCT MAINTENANCE

The software is provided as perpetual software with ONE year support and maintenance.

You are also advised to purchase an additional extension for three years when purchasing the software - you can defer this until later should you choose to do so, although early purchase avoids any break from support or updates.

### SOFTWARE LICENSING

Simplified licensing ensures that you can bring your software installation on-stream as quickly as possible.

### HOW IS FUSION PREMIUM LICENSED?

The software is licensed on a per-device basis and does not operate a concurrent method.

Licenses purchased are required to be entered into the licensing page, and then activated across the Internet or manually using e-mail.