

VXL Fusion Premium

Device Management for the Enterprise

Your IT – Unified, simplified, controlled

Your IT estate continues to grow, as does the collection of tools needed to manage each element and node. Your business demands increased operational flexibility, availability and raw processing power, leading to even more hardware acquisitions that need to be managed, maintained and supported.

Fusion Premium has been developed to provide a centralised management console, replacing the disparate collection of tools your service delivery department currently relies on, and simplifying the job of administering your network and devices.

Management Made Simple

Fusion Premium is built on Fusion DM and is a complete discovery and management toolkit, allowing you to index and administer every device quickly and easily. Granular reporting allows you to monitor and audit every network asset, a select group, or specific machines of interest – as few or as many as your unique business structure requires.

Discovery tools allow you to catalogue and manage every device, fixed or mobile, regardless of location. Fusion Premium gives a comprehensive overview of network assets, detailing software patch, license and general operational health data. Enterprise dashboards further simplify administration offering one-click access to remote control tools, direct from the web browser interface.

Granular Control As Standard

The simple-to-use interface masks a number of powerful administration tools. The hierarchical group architecture approach of Fusion simplifies the creation and administration of permissions, configurations and more – regardless of the type of client device in use. Thin clients, desktop PCs, laptops, kiosks and tablets are all instantly visible and configurable through the single unified interface of Fusion Premium.

Fusion Premium supports a wide range of operating systems, from Windows XP to Windows Embedded together with Embedded Linux distributions. Fusion Premium offers a complete management toolkit for every network node.

Built-in software metering allows you to deploy and manage licenses, ensuring full use of existing resources and allowing you to create more accurate IT budgets.

Additional tools then allow your team to closely monitor software and anti-virus patch levels, and deploy updates to improve network security and resilience.

Increased automation

Helping to reduce the administrative workload of the IT team, Fusion Premium automates many low-level operations, allowing engineers to focus on other duties. Built in scheduling tools allow for automated creation of tasks and profiles on remote devices, simplifying deployment of drive mappings and printer settings for instance. You can even execute PowerShell, VBS and shell scripts remotely to further automate common jobs.

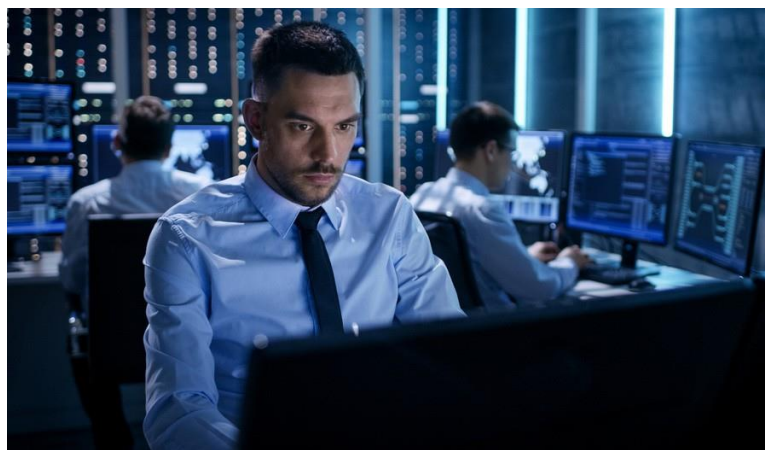
Fusion Premium also assists with unattended management activities, using event based actions to deploy updates,

allocate licenses or execute scripts for advanced reconfiguration. Using automated actions, IT compliance becomes easier to attain and maintain, improving overall network health and conformity.

Many sites, one interface

Fusion Premium scales seamlessly with the multi-tenancy add-on, allowing IT service providers and system integrators to manage multi-company IT resources affordably and effectively. All assets, regardless of location, are available for management and reporting through the same interface, centralising and simplifying IT management for outsourced and in-house teams alike.

By replacing multiple support tools with a single, common interface, engineers and support providers can concentrate on delivering a world-class service to their end users.



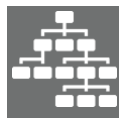
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WHY YOU SHOULD USE VXL FUSION PREMIUM MANAGEMENT SOFTWARE



ENTERPRISE GRADE

Fusion Premium is a true, enterprise grade management tool capable of managing and configuring tens of thousands of devices.



HIERARCHICAL GROUPING

All enterprise computing is broken into manageable groups, and Fusion Premium allows you to manage your network of devices in just such a manner.



TASKS AND TEMPLATES

Equipped with a state-of-the-art task definition and managing architecture, Fusion Premium makes the handling of tasks and task templates extremely efficient.



SOFTWARE DEPLOYMENT

Whether you wish to clone one Thin Clients to another, clone the settings and connection profiles, or simply install or un-install software, Fusion Premium handles it.

VXL Fusion Premium

SPECIFICATIONS

System Requirements

HARDWARE

Intel Xeon Server or equivalent
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
64bit OS support Only
Also supports installation on Windows 10 Professional for POC purposes

Internet Information Services

IIS 8.0 & 8.5 for Windows Server 2012.
IIS 10.0 for Windows Server 2016
Microsoft .net Framework
.net Framework 4.6.2 or above.

Database

SQL Server 2012r2 and above supported
Express, Standard & Enterprise versions supported

SSL Certificate

Standard public certificate or OpenSSL compatible SSL Certificate

Internet Browser Support

Google Chrome
Mozilla Firefox build 30 and above
Microsoft Internet Explorer 10 and above/11

ORGANIZATION MANAGEMENT

Group Management Features

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, 802.1 x Security, Wi-Fi and Wi-Fi security settings

Domain: Workgroup settings and Join Domain

Peripherals: Keyboard, Mouse, Display, Printer settings, Serial Port, Fabulatech, Sound Management

User Interface: Wallpaper, Taskbar, Screen Saver, Background 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, WIFI 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

REMOTE ADMINISTRATION & CONFIGURATION

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 zone settings, Time Server, Network time synchronization settings

Time and Language, Region And location, 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, Edit and Delete Users, Reset Password)

Service management

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

Performance management

Start-up application settings,

Registry backup & restore,

Task 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)

Software

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

Network

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

Proxy settings

System

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

Mozilla Firefox, Google chrome (Linux)

Global Connection Settings (Windows & Linux)

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

Execute Remote Command 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 Activity Monitoring, 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

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, 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

FUSION GENERAL FEATURES

Devices and OS's Managed

Servers, Desktops, Thin Clients, Windows Surface tablets, POS and more

Windows XP, Windows 7 Pro/Enterprise. Windows 10 Pro/Enterprise, Windows Embedded Standard 7, Windows Embedded Standard 8, Windows 10-IoT Enterprise, POS Ready & CloudDesktop OS Embedded Linux

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 encryption

RECOMMENDED SERVICES

Lenovo™ offers a comprehensive portfolio of services to support and protect your investment. Succeed with substance and let Lenovo's Service support you all the way.

TECHNICAL SUPPORT & PRODUCT MAINTENANCE

Fusion Premium is provided with 30 days support and maintenance, however the purchase of first year support and maintenance is mandatory.

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



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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

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

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

Remote Connections through RDP and VNC in Context Menu

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

FUSION PREMIUM LICENSING

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

HOW IS FUSION PREMIUM LICENSED?

Fusion Premium is licensed on a per-device basis and does not operate a concurrent method.

Licenses purchased are required to be entered into the Fusion Premium server licensing page, and then activated across the Internet or manually using email.

Database backup and restore settings: automated / periodic database backup

Mailer engine SMTP server configuration, user management and settings

