

Fusion DM - Thin Client Management

Enterprise grade, highly powerful.

Flexible and highly functional software

Fusion DM, our latest edition of device management software for thin clients, which is included free of cost, with no ongoing subscription costs, brings a whole new dimension of management technology and functionality to your fingertips. Enabled with enterprise features such as hierarchical grouping, group profiles and enhanced task management, Fusion DM allows your IT engineers to manage, configure and control your Lenovo Thin Client estate with high efficiency and flexibility. Fusion DM operates using industry standard, Microsoft technologies and manages Windows Embedded and CloudDesktop OS Thin Clients. Fusion DM also allows you to manage Windows Embedded Thin Clients from other vendors, as well as basic Windows PC management using optional licensing.



WHY YOU SHOULD USE FUSION DM MANAGEMENT SOFTWARE



Enterprise grade

Fusion DM is a true, enterprise grade management tool capable of managing and configuring tens of thousands of Thin Clients.



Manage connections

Manage all your Citrix®, VMware® and Microsoft® connections, on all your managed Thin Clients through the Fusion DM console.



Hierarchical grouping

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



Software Deployment

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



Tasks and Templates

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



Uses Windows® industry standards

Fusion DM uses industry standard Microsoft Windows and Microsoft SQL Servers for its framework, so you can rest at ease knowing there is full ownership behind the infrastructure.

KEY ADVANTAGES OF FUSION DM MANAGEMENT SOFTWARE

1 | Manage thousands of Windows Embedded and CloudDesktop OS Thin Clients from one console.

2 | Manage and control every aspect of your Thin Client's settings with Fusion DM from a central IT hub.

3 | Architected for the enterprise, Fusion DM fully supports load balancing and clustering.

Lenovo™

Fusion DM - Thin Client Management

SPECIFICATIONS

System Requirements

Hardware

- Physical: Intel Xeon Server Quad Core or equivalent
Virtual: 4 Virtual Socket + 2 Virtual Core min.
- 12GB RAM Minimum (more if SQL Server on same server)
- 80GB HDD Minimum (250GB or more if SQL Server on same server)

Operating System

- Windows Server 2016 and above
- 64 bit OS support only

Internet Information Services

- IIS Version 8.x and above supported

Microsoft .net Framework

- .net Framework 4.8.x and above

Database

- SQL Server 2017 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 Chromium (recommended)
- Google Chrome (recommended)

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 Embedded) and device type (Notebook, Thin client, Zero Client)
- 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
- Upgrade: Remote Software Installation & Uninstallation, File & Folder Transfer, File import and Software Restriction configuration
- Patch Management: Fusion DM Patch Management using Lenovo packages
- 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

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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

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, LoggedIn 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

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, Details, Internet Settings, Firewall, Port Settings

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Domain, IP, Subnet, Gateway, Domain, WINS, DNS))

- Wireless Security Properties (SSID, Networktype, 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, pointerspeed, 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

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- 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 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

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 and security updates using Lenovo patch packages

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 (Linux)
- Global Connection Settings (Windows & Linux)

Remote Control

- Remote control (shutdown, restart, Log off, workstation lock, Remove Agent, Disable LTM 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
- SmartBoard Projector control operations
- Execute Remote Command operation

Image and Template Management

- Device properties clone, deployment & archival
- Configuration templates: creation and archival

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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 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, Software Summary, Task management, System Health Status, Computer By make And Model, Software and Hardware changes, 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
- Inventory Reports: Hardware Inventory Report, Software Inventory Report, Hardware Inventory Summary
- Audit Logs: Boot, Application, Hardware, Schedule, Idle State, Screen Saver, Software Detail, Server Event, and Internet History

FUSION DM General Features

Devices and OS's Managed

- Thin Clients, Windows Embedded based POS and more
- Windows Embedded and CloudDesktop OS

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
- 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
- Master data and Fusion DM client license management
- Heartbeat mechanism to track status of devices

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- 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

- Deploy Windows security updates provided by Lenovo

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

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

FUSION DM-as-a-Service

- Fusion DM is available as a bespoke, personalized data centre service

RECOMMENDED SERVICES

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

PRIORITY TECHNICAL SUPPORT²
Makes your priority, our priority. 24x7 priority call routing to advanced-level technicians, electronic incident tracking and escalation management services.

INSTALLATION SERVICES²
It is key to us that your user experience of Fusion DM is the best possible,

and so we offer both on-site and remote installation services at very affordable costs.

TRAINING SERVICES²

Fusion DM is easy to use, but you may not have time to learn it. We can offer you and your staff on-site and web-based remote training should you feel you need it.

² Not available in all regions.



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