

Name of Release

Title	Description
Software Product Name	Fusion DM Windows Agent
Release type	Full Install
Release Date	12/09/2023
Software Version Number	2.0
Build Number	5.5.111
Build Release Filename	Fusion DM WindowsAgent-v2-5.5.111.exe
Matching LTM/FUSION DM Server	LTM-Server-v2-5.4.855 and Fusion DM Server v2:5.5.100
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Overview

This is an image production release of Fusion DM Agent to be used with Fusion DM Server for managing Microsoft Windows OS based devices

Compatibility

Lenovo Thin clients and Laptops

- Windows 10 IOT: M600, M715Q, L470, L480, X270, M625Q, M75n, Neo50q;

Updates in V2:5.5.111 release

General Enhancements:

- Branding-related changes.
- Resolved miscellaneous issues.
- Updated all 3rd party DLL and EXEs to latest versions.

Updates in Previous Release

❖ Fusion DM V2:5.5.106/108

General Enhancements:

- Branding-related changes.
- Resolved miscellaneous issues.

❖ Fusion DM V2:5.5.105

General Enhancements:

- Updated all the used 3rdparty (Open Source) dll and exe to the latest version.
- Resolved miscellaneous issues.

❖ V2:5.5.103

General Enhancements:

- Added support for multiple network adapter along with virtual adaptor like Sonicwall Netextender.
- Added support for the chrome and edge in browser connection.

Bug Fixes:

- Resolved issue for ack was showing unsuccessful for reset password in task activity monitor.
- Resolved issue of unsuccessful acknowledgement is sent for successful uninstallation task(chrome browser)

❖ V2:5.4.855

Bug fixes:

- Resolved issue of template task taking 5step process for each task.
- Resolved feedback issue of command not getting on server.

❖ V2:5.4.850

General Enhancements:

- Added location tracking sync on Synchronization inventory, provided location setting and agent registry is enabled on device.
- Added flash screen while registering agent manually from agent applet.
- Enhancement done in the device enrolment and the delay process.

Bug fixes:

- Fixes done for agent not staying connected to LTM server console.
- Fixes File and Folder transfer issues.

❖ V2:5.4.800

General Enhancements:

- Implementation in reverse VNC to delete entry from .ini file while closing connection.
- Implementation for agent upgrade with exe file(From context Menu)

Bug fixes:

- Resolved issues LTM Agent does not communicate after restart.
- Resolved French translations strings.
- Added exact return code in case of cifs downloading.
- Resolved issue Import file not visible in physical repository.(Added .pst extension)
- File Upload module not working for FTPS connection.
- Software uninstall setting succeed but not reflected on device.
- Resolved issue of VM ware global setting task succeeded but not reflected on device.
- File Upload module not working for FTPS connection.

❖ V2:5.4.750

General Enhancements:

- Implementation for reverse VNC new modification.
- Changes made in below Observation:
 - "Time before shutdown" this message is display on all alert (in case of skip 5 step & disable state there should be other text)
 - In case of template only we are showing "OK" button.
 - If reboot not required, in this case we are showing "Remaining time:"
- Implementation for UI setting in windows connection launcher.
- Implementation for sync for UI setting in connection launcher.
- Created ok button and dialog for postpone timer.
- Hide "Restart Now" button from Alert

Bug fixes:

- Resolved issue of software installation task ask for user interaction validation for exe and kept for msi.
- Resolved issue of multiple reboots in template.
- Resolved issue of template remains in 3 step process.
- Hostname issue resolved for clone deploy.
- Resolved Template Start message "Ok" button is missing issue.
- Resolved Device takes multiple reboots in case of combination of postponed & normal Template issue.
- Resolved issue of Send message to client: On device "Feedback & OK" button color is same, no spacing in-between required.
- Resolved issue of multiple postpone alert.
- Resolved issue of multiple alerts in template.

❖ V2:5.4.710

General Enhancements:

- Implementation done for all repository for File transfer module.

- Implementation done for third party (HTTP/HTTPS) and Default HTTP repository for File transfer module to append .pst extension while downloading file.
- Resize of Ok button for send message alert for Spanish MUI.

❖ V2:5.4.700

General Enhancements:

- Added support for the UWF overly setting.
- Added support of Skip 5 step process for command and application.
- Added support of Skip 5 step process through Template Manager.
- Implemented to change user name in idle state logs i.e. domain name username.
- Implemented for backup of VNC password via exe installer.
- Added new values in the RegistryName.xml for advanced remote settings.
- Added new VNCTCP port 5900 in the AddExeption.
- Implemented sending log-on and log-off logs to server (without log-off).
- Added validations for not getting END TEMPLATE sometimes or retaining in 3-step process in case of template.

Bug fixes:

- Resolved CRT popup issue.
- Resolved issue for Execute later /group to UWF pop message.
- Resolved issue of battery alert for greater than and less than case.
- Resolved issue /manage the log off events for missing previous logoff event to LID close case.
- Resolved issue for Security Patch remains in process
- Resolved Network printer customer's issue
- Resolved VNC password backup/restore issue for exe installer.
- Resolved issue of getting idle logs in hibernate event.
- Resolved issue of same login logoff time.
- Resolved Mac address issue for multiple virtual adapters exist case (Handling special for TAP-WINDOWS Adapter and TAP-WIN32 Adapter).
- Resolved issue to manage login logoff when day changes.
- Resolved issue for VNC password not effective after restoring backup (For exe installer).
- Resolved issue for command console exits immediately after execution

❖ V2:5.4.505

General Enhancements:

- Removed SQLite dependency and removed .dll from installation.
- Added OSC Notice button on about us form.

Bug fixes:

- Resolved issue MUI issue for OSC Notice Button.

❖ V2:5.4.503

General Enhancements:

- Modification done for computer name and domain setting module separation

Bug fixes:

- Resolved issue for https Repository for downloading modules.
- Resolved issue for FTPS Repository for downloading modules
- Resolved issue for host name domain name backward compatibility
- Resolved issue for ideal logs in case of Remote Desktop.

❖ V2:5.4.104

New features:

- Implementation in Auto negotiation in case of Multitenant server.
- Implementation of Location tracking to support location-tracking module on server.
- Implementation for non-broadcast network from Wireless configuration.
- Added support to send Boot logs when hybrid shutdown feature enable on devices.
- Implementation to prevent users from downloading stuff from chrome and executing it
- Implementation for blocking everything and only allowing certain whitelisted system applications to run on devices.
- Support Clone-Deploy for FTPS protocol.
- Implemented master credentials for Agent applet.
- Implementation for battery alert percentage wise.
- Added configurable registry for Location Tracking (By default its OFF)

General Enhancements

- Modification done in Patch sync for display proper category value.

Bug fixes:

- Fix an issue showing invalid IP Address in the Device List view.
- Fix an issue for idle state logs in case of system lock.
- Fix an issue regarding TCP discovery
- Fix an issue "Save and Register" taking long time and showing not responding.
- Resolved boot logs issue for showing double entries on server report.
- Resolved issues from Login and restart of devices for Login Logout time is not received if network is not connected as well as in case of Restart time is not received if network is not connected.
- Resolved issues regarding Login and Logout when we switch user with different user account.
- Resolved issue of Patch management for specific patch (KB4523205)
- Resolved issue for Browser restriction => USBDeviceController restart alert appears and client is rebooted.
- Fixes done In Start-up Application List, the task gets enable even from server checkbox are disabled.
- Keyboard settings gets ineffective if user presses "Ctrl+Alt+ Delete" keys. To make it effective, user needs to re login or restart.

- Resolved Service mode not working issue in case of write filter enable.

❖ V2:5.4.100

New features:

- Implemented multiple battery Indicator (For Battery name, Battery level, Power source, Battery life time, life percent, etc.).
- Added functionality to skip UVNC installation via command line parameter as VNC=NO.
i.e. Agent installation without VNC then use parameter = /quiet VNC=NO)

NOTE: Above functionality will be supported having base agent ver.5.4.1 and above.

General Enhancements:

- Implemented configurable sync for Services and Power options modules.
- SignalR supports to windows 7 and windows 8 with TLS 1.1 and TLS 1.2 previously .It works with TLS 1.0.
- Updated UpGsoap toolkit, OpenSSL and Zlib version framework.

Bugfixes:

- Write Filter Status is displayed as NA in Real-time SignalR is fixed.
- Logged in user for the devices is displayed as "System" in Real time SignalR fixed.
- Time server settings gets applied on device, but task failed with unknown error is fixed.
- Resolved Keyboard Layout for after log-off to retain the keyboard locale.
- Added validations for Write Filter logs and hardware logs, to avoid unnecessary web method hits.
- Resolved issue for improper Bios serial number.
- Resolved Upload download module task would remain in-process, if file didn't exist in repository.
- Resolved Send message task remains in-process for display time is "Always".
- Resolved Remote installation for task getting failed with reason "The system cannot find the file specified" in case of system has 0 bytes free space.

❖ V2:5.3.005

General Enhancements:

- Added Refresh button in Task Activity Monitoring.
- Provision added to replace all exiting keys in Keyboard locale (effective after the device reboot).
- Implemented support to change Region and Location.
- Removed OK button for alerts, excluding send message.
- Implemented Reset Password functionality for resetting user password on the client machine

Bugfixes:

- Resolved issue regarding CIFS connection with Domain user credentials for Software deployment and Deploy certificate.

- Resolved issues in User Management on creating a new User.
- Resolved Deploy Certificate module issue for failure case.
- Folder Transfer task remained in process while utility WinZip not installed on the client machine.
- Added failure reason as "Failed to unzip folder".
- In Windows Display settings, dual display resolution for dual screen issue is resolved.
- In Date and time for Windows Time Server sync is fixed.
- On Device Log-Off Alert Message issue is fixed.
- Resolved issue regarding Product Key sync issue.

❖ V2:5.2.005

- Resolved keyboard locales issue.

❖ V2:5.2.001

- Integrated Code signed executables for compliance with the latest Microsoft

Windows Defender definition updates.

- Resolved issue regarding Write Filter for sending logs to server.

❖ V2:5.2.000

- Added Terradici PCOIP protocol connection support for Windows Embedded IoT.
- Implemented "Prevent user to set Screensaver" functionality for Screen Saver.
- Implemented "Prevent user to set wallpaper" functionality for wallpaper.
- Implemented Obtain Registry for syncing all registry keys from client registry.
- Implemented backward compatibility for Clone & Deploy image which supported on devices having Alpine Pro version below and above 19.
- Implemented support for the Clone and Deploy with DHCP and Static (IP) network configurations.
- Implemented and support for real time communication SignalR Hub.

Bug Fixes:

- Resolved issue regarding RAM Type in RAM Details for hardware information.
- Handled the problem which was caused by the settings of RDP file present in the My User profile, which was causing memory issue.
- Mantis Bug 406: Resolved issue of SignalR monitoring & Hardware log values not getting set at device.
- Enhanced Software Installation module to get date/time of all software installations.

❖ V2:5.0.005

- Added validation for Computer Name setting in case of "@\." special characters available in the user name.

- Implementation done for Restart Now, Shutdown Now, Write-Filter operation for immediate restart and shutdown.

Bug Fixes:

- Resolved issue regarding Browser History logs issue.
- Resolved issue regarding Network printer issue. Added validations for network printer in case of "@\" special characters available in the username.
- "Resolved Computer Name setting issue after implementation of special characters.

❖ V2:5.1.000

- Implemented WebSocket based real time communication framework (SignalR) Hub.
- Removed FBWF/EWF .dll dependency from agent applet and remove write Filter status from agent applet tooltip.
- Implemented "Configurable Sync" Inventory for Task Scheduler to reduce time complexity. By default it is zero (0) i.e. No task scheduler data will be synced.
- Implemented generic solution for VMware connection till VMWare version 4.8.

Bug Fixes:

- Resolved issue from Clone image as system would crash on configuration when clone task was applied.
- Resolved issue from Clone image for Wes7 Image, agent alert window would launch continuously after applying task.
- Resolved issue regarding Execute Command, Connections, File transfer for the Writer Filter 5 step process
- Resolved Sync Inventory and Graphics info Sync issue.
- Resolved issue, when we apply changes for start-up type from LTM server for service module it is not able to reflect on client.
- When any of the download modules are applied, (wallpaper, Remote Installation, etc.) using file with spaces or special characters, the agent would fail to download using curl. This was observed only on following protocols:
 - Default HTTP, Third party HTTP and Third-party HTTPS connection.
- Resolved Memory Leak issue in Remote Applet.
- Resolved issue regarding FBWF cache size: Failed with reason "Applied cache size is beyond the limits"
- Resolved agent control panel applet issue.

❖ V2:5.0.000

- Implemented VMware Blast protocol support.
- Implementation done to set VNC password.
- Implemented Write-Filter 5 step process for USB device manager module on FBWF systems.
- Implemented Unknown Error handling for all download modules, when downloading a file.

- Implemented reattempt logic to download file at failure cases for finite attempts.
- Implemented configurable registry for hardware logs.

Bug Fixes:

- Resolved an issue in Service mode: In case of FBWF & UWF enabled state,
- UWF remain disabled after completion of Clone or Deploy process.
- History cleaner does not work when all the options selected.
- Taskbar Properties: Auto-Hide Taskbar not getting set for UWF Client.
- Resolved issue regarding FBWF cache size: Failed with reason "Applied cache size is beyond the limits".
- Resolved Graphics info Sync issue.
- Resolved multiple popup issue while logoff, shutdown and restart.

❖ V2:4.9.000

- Optimisation and enhancement done for Clear History, Cookies and Cache size issue.
- Added support to execution of PS1 files through File and Folder transfer module.
- Patch Sync issue: Added proper reasoning for access to unmanaged server.

❖ V2:4.8.000

- Added BIOS configuration settings support for Lenovo think Clients.
- "Export Logs" functionality added in Agent Applet.
- Functionality to keep user on Login Window after Sign Out has been added in case of Force Auto-login for Windows 10 Devices.

Bug Fixes:

- Resolved MUI issue for Export Logs functionality.
- Resolved argument parameter issue for Custom executable connection.
- Resolved folder transfer batch execution in process issue. (Mantis Bug ID:-349)
- Resolved Forward VNC issue. (Mantis Bug ID:-360)
- Resolved FBWF exclusion in process issue. (Mantis Bug ID:-367)

❖ V2:4.6.000

- Implemented UWF Exclusion list module: Add/Remove/sync file/registry.
- Added port 5900 for VNC in firewall exception at the time on agent installation.
- Enhancements done in the SSL certificate process (Global Certificate).
- Improvement done for error-logging in Alpine pro Clone-Deploy functionality.
- Resolved Agent pop-up message display issue when Deploy task was applied and that Task failed.

❖ V2:4.5.000

- Implemented major changes for input string sizes: maximum length is allocated for all input string fields accordingly.

- Implemented Write-Filter 5-step process in Computer host name set functionality for FBWF based systems.
- Enhancements done in the user-profile specific modules like Wallpaper, Taskbar Properties, RDP connections, Keyboard, Mouse, Screensaver settings, etc., in order to avoid issue relating to the hardening in the user profiles.

Bug Fixes:

- Service mode and Computer name settings not getting applied for Windows 10 Embedded when UWF is enabled.
- Agent icon gets disappear after system log off.
- VMware connection auto start is not working.
- File/Folder import not working for system folders.
- Resolved certificate issue in Auto-negotiation flow

❖ V2:4.4.000

- Resolved double icon issue after clicking the reset button.

❖ V2:4.3.000

- Implemented Debug enable /disable on the agent applet configuration applet.
- Implemented unknown error reasoning for Time server functionality.

Bug Fixes:

- Host name setting for domain server consist more than 100 Organization Units.
- OU join will work for Child level domain joint.
- Resolved an issue Template functionality for UWF systems: The Agent would fail to reboot the system after disabling UWF.

V2:4.2.000

Bug Fixes:

- Resolved an issue in Manual discovery: When the server was configured using non-default port, the Agent failed to register to the server
- Implemented reasoning for networking errors in Patch sync.
- Implemented change for login-required tasks: Display Setting.
- Skipped Write-filter 5-step process for the following modules:
 - Lock Computer
 - File Import Setting.
- Implemented new change requirement in Remote Installation module, for installation of .MSU type of File.

- Resolved minor issue in Host Name Setting.

❖ V2:4.1.000

Bug Fixes:

- Resolved minor bugs in RDP Connections.
- Enhancements made in real time communication (SignalR) functionality.
- Most of Mantis issue are resolved and the status is updated on Mantis portal.

❖ V2:3.9.000

- Implemented change requirement to make work Alpine Pro Clone-Deploy functionality work on Win10IoT M715Q Board with Secure boot Enabled state.
- Enhance SignalR (Real Time Communication) functionality.
- Improvements and enhancements done for Display resolutions (Display Module and RDP Connection).
- Added standard special character support for connection name.
- Resolved VNC connection close issue.
- Added Connection rename functionality.
- Import functionality added to automate connection creation by importing from CSV files.

❖ V2:3.7.009

- Issue reported by JinLiyi is resolved.
- Issue1: (CN) Localized issue in Chinese
- Issue2: (EN) Incorrect IP message for LTM Agent when there isn't network Connection.
- Issue3: (CN) Localized issue in Chinese LTM Agent Applet, Tool Tip and About- Us resolved.
- Installation of agent restrict on Write Filter Enabled system.
- Resolved backward compatibility issue in Remote Installation module: When this task was applied from old server, the agent failed to perform Write filter 5-step process.
- Resolved RDP Connection delete issue.

❖ V2:3.7.000

- Now Installer only support for the Lenovo images.
- Resolved issue regarding service mode enable/disable in Template functionality.
- Separated FBWF Cache size module from FBWF Exclusion list module
- Resolved Agent ON/OFF issue.
- Resolved network printers sync issue
- Resolved multiple times download issue at time of Agent up-gradation.

Features

- Agent configuration applet with options to set configuration protection password, agent communication settings, advanced settings, List of recent task activity
- Task notification applet consisting of status of agent connection
- Client implementation of remote management for the following functions
 - Remote management Device Information including current device settings, hardware details, list of installed software and updates
 - Remote configuration
 - Configuration of Ethernet & Wireless setting, Wireless security settings.
 - Peripheral setup including Keyboard, Mouse, Single or dual Display,
 - Printer settings, Date/Time settings, Memory & power management settings,
 - Connection Manager for Internet explorer, Microsoft RDP, Citrix Receiver, VMware view Clients.
 - Remote Administration
 - User Configuration & management,
 - User interface settings,
 - Services & performance management,
 - UWF F Write filter settings,
 - firewall & proxy settings,
 - Hardware I/O port lock settings, USB device management
 - Remote agent settings
 - Certificate management
 - system logs
 - Remote control
 - Shutdown, restart, Log off, workstation lock, Wake on LAN, Remove/Disable agent, text messaging, remote shadowing using VNC & RDP, Service mode operation, synchronize client settings
 - Software upgrade management
 - Cloning and deployment of properties & Images
 - Software installation and un-installation
 - File/Folder Transfer and Execute
 - Import File
 - Remote application and remote command execution

Additional Changes

❖ N.A.

Known Limitations

- Install agent Without VNC, functionality will be supported only when user install the setup through command line manually using parameter = /quiet VNC=NO.
- Boot Sequence gets restored even if entered BIOS password is invalid.
- Mouse Setting: Double click speed not getting set on the device. (Inconsistent)
- Add/edit functionality working only for Personal Wireless Properties Connection.
- Limitations in Image Clone & Deploy features:
 - Default LTM_HTTP repository connection does not work for clone and deploy of image.
 - Cross deployment of OS image using Alpine pro is not supported.
 - Alpine pro firmware does not support WIFI connection hence image clone and deploy over Wi-Fi is not supported.
 - Full Device Clone and Deploy not supported.
 - If the client is already added in OU, cannot move it from one OU to another OU.
 - Display settings will get reflected if supported resolutions are sync on server, which are present on device.

Known Issues

- Failed to reflect clear browser history settings on devices [inconsistent].
- VMware connection created using agent version below 5.0.000, details will not get synchronise and also if we edit those connections and pass non-interactive option through latest LTM Server then connection does not get invoked.
- **Template Manager**
 - Application restriction > Deny All : Task remains in-process
 - Asynchronous template type: Device takes multiple reboots while execution.
- ❖ MUI Issues:
 - Fail to set Environment variable.
 - Timeout option for the Alert message is not working
 - Agent applet text for Turn ON is wrong (French).
 - Service mode information schedule popup translation is not proper. (Japanese & Chinese)
 - USER edit/delete functionality is not working (Spanish & French)
 - In Service Management, service name and description not getting updated after synchronise inventory (French).
 - Power Management does not work. (Japanese & Chinese).
 - Task Scheduler sync does not work for MUI language. (Japanese & Chinese)
- ❖ Known issues with Image Clone and Deploy feature:
 - For Alpine Process Deploy image not working for FTPS protocol

- If space exist in password field of the repository connection, it shows the backend script while clone process or task gets failed.
 - When user make changes in the Disk Management, on reboot shows Grub Error for windows 7.
 - Clone and Deploy task get failed through Linux and Mac repository connection.
 - When we create new drive, after completion of clone process drive letter gets interchanged and CDDRIVE gets visible.
- ❖ Following task goes under 5-Step Process (In Execute Later):
- In Case of UWF: Send Message, task performs 5-Step Process.
 - In case of FBWF: Lock Computer, Send Message, Synchronise Inventory, Remote Agent settings performs 5-Step Process.
 - It is mandatory to upload/select a new or same wallpaper to/from repository to rollback preventive setting of wallpaper.
 - Screen saver and wallpaper new implementation functional for logged in users.

Filenames in this Release

- ❖ Fusion DM WindowsAgent-v2-5.5.108.exe

Special Instructions

- In 64-bit Systems, to transfer the files at C:\Windows\System32 path please use Sysnative instead of System32.
- To invoke the old VMWare connections after upgrading the VMware Horizon Client to latest version (i.e. from VMware-view client 5.4.0.1219906 to VMware-Horizon-Client-4.8.0.1562) it is mandatory to edit the existing connections from server.
- VMware connection created using agent version below 5.0.000, details will not get synchronise and if we edit those connections and pass non-interactive option through latest LTM Server then connection does not get invoked.
- When applying the FBWF Cache size module from FBWF Exclusion list module then task goes in process.
- (On applying the FBWF Cache size) The Agent may not be backward compatible. This will work fine with old Server and latest Agent but may not work with latest Server and old Agent.
- Agent Upgrade using the .EXE installer file through LTM server will work only in write filter disable state. In case of enable write filter use option auto upgrade or upgrade agent for the upgradation of agent.
- After Agent Upgradation, Sync Inventory is compulsory to make connection rename functionality work properly.
- Connection Rename functionality may not work on sync.

Installation Options

- ❖ Can be installed using the following methods:
 - Installation using Active directory policy
 - Manual installation

Further Reference

- ❖ Refer to Fusion DM Installation and Upgrade Guide for installation Instructions.