

# Markvision Enterprise Release Notes (1.10.0)

## [Support Statements](#)

[System Requirements](#)

[Operating Systems](#)

[Firewall Rules](#)

[Browsers](#)

[Databases](#)

[Firebird \(included\)](#)

[Microsoft SQL Server \(not included\)](#)

[Languages](#)

[Supported Models \(oldest to newest\)](#)

[Upgrading MarkVision Enterprise](#)

[New and Noteworthy](#)

[Known Issues](#)

[Using Firmware policies with the MS610](#)

[Certificates used for SSL will need to be reimported when upgrading from 1.8.x to 1.9.x](#)

[Upgrading from version 1.5.x to 1.6.x](#)

[Error#:2032 when accessing MVE client](#)

[Temporary](#)

[Permanent](#)

[Setting color print permissions](#)

## Support Statements

## System Requirements

- CPU
  - Minimum: 1 physical 2GHz (Hyper-Threaded/Dual Core)
  - Suggested: 1+ physical 3+ GHz (Hyper-Threaded/Dual Core+)

- RAM
  - Minimum: 1 GB
  - Suggested: 2GB+
- Storage space: 60 GB
- Screen resolution: 1024x768 or greater

## Operating Systems

It is expected the Operating System will have the latest patches/updates installed.

- Windows
  - 32-bit
    - Windows Server 2003 R2
    - Windows Server 2003 R2 via VMWare ESX 3.5 U5
    - Windows Server 2003 R2 via VMWare vSphere 4 U1
    - Windows 7
    - Windows 7 via VMWare ESX 3.5 U5
    - Windows 7 via VMWare vSphere 4 U1
  - 64-bit
    - Windows Server 2003 R2
    - Windows Server 2003 R2 via VMWare ESX 3.5 U5
    - Windows Server 2003 R2 via VMWare vSphere 4 U1
    - Windows 7
    - Windows 7 via VMWare ESX 3.5 U5
    - Windows 7 via VMWare vSphere 4 U1
    - Windows Server 2008 R2

- Windows Server 2008 R2 via VMWare ESX 3.5 U5
- Windows Server 2008 R2 via VMWare vSphere 4 U1
- Windows Server 2012 Standard Edition
- Windows Server 2012 R2

## Firewall Rules

The installer will attempt to create several Windows firewall rules. If the Windows Firewall is not running at the time of installation, but is enabled later, these rules need to be created manually.

Rules:

- `firewall add allowedprogram "<installdir>/tomcat/bin/tomcat6.exe"`  
`"MarkVision Enterprise Tomcat"`
- `firewall add portopening UDP 9187 "MarkVision Enterprise NPA UDP"`
- `firewall add portopening UDP 6100 "MarkVision Enterprise LST UDP"`

## Browsers

It is expected the Browser will have the latest patches/updates installed. It must also have the latest version of both Adobe Flash Player (to run the client) and Adobe Reader (to view reports).

- Microsoft Internet Explorer 7.x
- Microsoft Internet Explorer 8.x
- Microsoft Internet Explorer 9.x
- Mozilla FireFox 3.6.x
- Apple Safari 4.x
- Apple Safari 5.0 (all platforms)
- Apple Safari 5.1 (Mac only)

# Databases

## Firebird (included)

- 32-bit

## Microsoft SQL Server (not included)

It is expected the database will have the latest patches/updates installed.

- 32-bit
  - 2005
  - 2008
  - 2012
- 64-bit
  - 2008
  - 2012

# Languages

1. English
2. French
3. Italian
4. German
5. Spanish
6. Brazilian Portuguese
7. Simplified Chinese

# Supported Models (oldest to newest)

The following table lists the models supported by Markvision Enterprise. The second column

indicates models that support the Security Policy. The third column indicates models that support a limited number of security settings. These devices do not support :

- The Access Controls, Security Templates, and Miscellaneous Settings sections of the security policy settings
- The Embedded Web Server Remote Management access control
- The user name, realm, password and PIN communication credentials

<b>Model</b>	<b>Security Policy</b>	<b>Limited Security</b>
T642/T644 with 4600 MFP		✓
T640/T642/T644		✓
W840		✓
C520/C522/C524		✓
C920		✓
X850/X852/X854		✓
X644/X646		
X642		✓
C770/C772		✓
C772 with 4600 MFP		✓
E350/E352		
E250		
E450		
C530/C532/C534		✓

C780/C782		✓
C930/C935		✓
X940/X945		✓
C780/C782 with 4600 MFP		✓
T650/T652/T654	✓	
C734/C736	✓	
E260		
C540/C542/C544/C546		
X658	✓	
X734/X736/X738	✓	
X543/X544/X546		
X264/X363/X364		
E360		
E460/E462	✓	
X463/X464/X466	✓	
C792	✓	
X654/X656	✓	

X651/X652	✓	
W850	✓	
X860/X862/X864	✓	
X792	✓	
T656	✓	
C925	✓	
X925	✓	
Forms Printer 2580/2581/2590/2591		
C950	✓	
X950/X952/X954	✓	
6500e	✓	
X548	✓	
Pro5500 Series		✓
Pro710 Series		✓
Pro910 Series		✓
Pro4000 Series		✓
X746/X748	✓	
C746	✓	

C748	✓	
MS810 Ln/MS811Mn /MS812 Hn		
MS 810 Lne/ MS812 Hne	✓	
CS310/CS410		
CS510	✓	
MS310/MS410/MS510		
MS610	✓	
MS710dn/MS711dn		✓
CX310		
MX310		
CX410 / CX510	✓	
MX410/ MX510 / MX511	✓	
MX610 / MX611	✓	
MX710 / MX711	✓	
MX810 / MX811 / MX812	✓	
M5155	✓	
M5163	✓	
M5170	✓	

XM7155	✓	
XM7163	✓	
XM7170	✓	
XM5163	✓	
XM5170	✓	
XC2132	✓	
C2132	✓	
M3150	✓	
M1140	✓	
M1145	✓	
XM3150	✓	
XM1140	✓	
XM1145	✓	
MX6500e	✓	
MS312dn		✓
MS315dn		✓
MS415dn		✓
M1140 Plus		✓

## Upgrading MarkVision Enterprise

When upgrading MarkVision Enterprise you must upgrade to the next point release. Skipping point releases may result in missing important updates to the system. If you are several levels behind, you must run each point release installer to reach the desired level. See the following examples:

### Valid

1.5.x -> 1.6.x-> 1.7.x -> 1.8.x->1.9.x->1.10.x

### Invalid

1.5.x -> 1.7.x -> 1.9.x

## New and Noteworthy

### ● General

- Device support: MS312dn, MS315dn, MS415dn, and M1140 Plus.
- Support for Microsoft Windows Server 2012 Standard/R2.
- Dropped support for Microsoft Windows XP.
- The SMTP port range in the email configuration tab has been increased.
- Translations for the Data Export template strings have been added.
- Added the 'Valid CA Certificate' setting for the X954.

### ● Policies

- Supply notifications discrepancies have been resolved.
- Fixed an issue where (in certain cases) security policies were not getting cloned if the device used internal building blocks or basic security credentials.
- Translations for the 'DDNS Refresh Time' setting have been corrected for

Spanish, Portuguese, Simplified Chinese, and French.

- Fixed an issue where changing the variable settings data file within a policy resulted in the correct file having to be selected twice.
- Negative values are now accepted for the NTP UTC offset setting for the X464.
- Service Desk
  - Fixed an issue where the device image for the MX610 and XM3150 wouldn't display.

## Known Issues

### Using Firmware policies with the MS610

- Beginning with MVE 1.9.0, MVE will not recognize MS610 firmware levels beneath EC3 (LR.PRx.P328) and as such will not be able to update a MS610 to any variant prior to LR.PRx.P328 using a firmware policy. If it is necessary to manage firmware levels beneath LR.PRx.P328 using a firmware policy in MVE 1.9, please contact support to obtain a customized firmware flash file.

### Certificates used for SSL will need to be reimported when upgrading from 1.8.x to 1.9.x

- This release will upgrade the JRE on the server hosting Markvision Enterprise. As such, the JRE upgrade will purge any certificates imported into the Tomcat directory. The certificate will need to be imported again to regain SSL connectivity.

### Upgrading from version 1.5.x to 1.6.x

- Policies out of conformance will be marked as having an unknown conformance state after upgrading. Users will need to execute policy conformance operations for these devices.
- Unresolved active alert conditions will be removed during the upgrade. As a result, devices with active alerts prior to the upgrade will no longer be in an active alert state after the upgrade.

## Error#:2032 when accessing MVE client

- The MVE client is an Adobe Flash application. Adobe requires internet access for the first execution of an Adobe Flash application. Workstations or networks without internet access will not be able to run the MVE client. If internet access can be granted temporarily, the MVE client can be executed successfully the first time and will then execute properly thereafter without further internet access.
- **If you can allow temporary internet access to the client:**
  - Add "\*.local" to the exception list in the Proxy Server settings of the browser, to give temporary internet access to load <http://localhost:9788/mve> (assuming MVE is being accessed from the server from which it resides).
- **If you are unable to give temporary internet access to the client:**
  - Adobe Flash Player (whether web installer or offline installer), needs internet connection the first time you run the client after an installation. It will not work in an intranet-only environment.

## Temporary

- Asset Manager
  - Discovery
    - Re-discovery of an offline printer is not changing the state to MISSING (DE838)
  - Audit
    - The state of the printer does not change when Hostname is changed (DE898)
- Event Manager
  - N/A
- General
  - Scheduled Conformance Checks & Enforcements do not always show up in the Active Tasks (DE911)
- Policies
  - Enforcement
    - Cloning or enforcing a policy on an unrestricted printer that is subsequently restricted, via the EWS, can result in a communications failure. MVE will cache the LST session token that is negotiated with an unrestricted device. When that device is then restricted, via the EWS, the device will honor LST communications using the cached LST session token but will not allow reading or writing of settings. This situation will not occur if the device is restricted by MVE. (DE1449)
    - Device communication credentials were designed to be set only when the security policy is successfully enforced. However, when any type of

policy is successfully enforced, the credentials will be set. (DE6489)

- Service Desk
  - Collect Current Status
    - A manual refresh must be done in order to see results of Collect Current Status

## Permanent

- General
  - If you export log file in CSV format junk characters may be displayed. Excel seems to expect csv files to be ANSI encoded. To resolve this problem use the following work around :
    - Open the exported log file in NotePad
    - Save it as ANSI encoding - when you click File > 'Save As' look at the bottom of the dialog and click ANSI in the drop down. The new file will display correctly in Excel.
  - If a task is dealing with a large number of printers, it might take longer than expected to stop it, if the user chooses to do so. (DE923)
  - 2032 Error when attempting to connect to the MarkVision server from the server machine. If the PC where MVE is running has access to the intranet, but does not have access to the internet, this error will occur. To correct the problem add "\*.local" to the exception list in the Proxy Server settings in your browser.
- Installation/Uninstallation
  - There are known limitations to running MVE and MarkVision Professional (MVP) 11.0+, simultaneously, on the same machine. When MVP is communicating securely, via Lexmark Secure Transport (LST), there is a port conflict with the LST being used by MVE. If MVP is already installed on the machine make sure it is stopped before installing and using MVE. Once both are installed, only one can be used at a time.
  - There are known limitations to running MVE and Lexmark Document Solution Suite (LDSS) 4.x, simultaneously, on the same machine; due to the same LST limitation mentioned in the preceding note.
  - Uninstalling Markvision Enterprise (MVE) that has been configured to use MS SQL Server will not drop created tables or databases. Administrators should manually drop the MS SQL Server databases created (named FRAMEWORK, MONITOR, and QUARTZ) after the uninstall.
- Device Statistics
  - "install dates" are showing in the locale of the MVE server instead of the locale of the printer (DE914)
- Policy

- Due to limitations in Lexmark device firmware, in order for MVE to be able to send files to a printer (Generic File Download & Firmware updates), the Firmware Function Access Control must not be set (for PR models).
- Due to limitations in Lexmark device firmware, in order for MVE to be able to enforce policies on a printer, the NPA Network Adapter Setting Changes Function Access Control must not be set.
- Due to changes in Lexmark device firmware, enforcing a security policy on a Lexmark X651 may fail after firmware is updated. To resolve the issue, recreate the security template on the device and try it again.
- Service Desk
  - Picture of Printer
    - The Lexmark X264 does not support the “Tray Open/Close” events.
    - The Lexmark X464 does not support the “Tray Open/Close” events.
  - Supply status level percentages for a supply nearing end-of-life becomes less accurate. The percentages retrieved from each device and each supply for that device are dependent on how that device handles low supplies.
    - Example: When toner gets below a certain threshold on one device, that device may simply return 1% remaining, while on a different device it may return percentages that are below that threshold.
  - Lexmark C746 does not support the remote operator panel.
- Event Manager
  - Perceived duplicate alert emails. Depending on how the email body is set up in MVE, the email could be seen as a duplicate. Email body can contain any messages, including the printer's and alert's variables. If the variable(s) that differentiate between alerts are omitted, then the email body will be the same. This become more apparent with active conditions that triggers multiple alerts. Users will see that one active condition has become active, but two emails are received.
    - Example: waste toner bottle: nearly full. This condition will generate two alerts. If the user creates the email body containing all the variables but missing the alert.type, then the email body will be identical.
  - (DE976/PTR389550) A Lexmark C935 can send multiple alerts, seemingly for the same, condition. For example, when registered for a 'Supply Low' alert with 'On Active and Clear' option & the device enters a 'Black\_Toner\_Low' condition, it issues four alerts, which are received by MVE:
    - Nov 15, 2010 5:38:29 PM \${configurationItem.ame} 10.195.7.106 Lexmark C930 Supply Low Black Toner Active Warning
    - Nov 15, 2010 5:38:34 PM \${configurationItem.ame} 10.195.7.106 Lexmark C930 Supply Low Black Toner Active InterventionRequired
    - Nov 15, 2010 5:38:41 PM \${configurationItem.ame} 10.195.7.106 Lexmark C930 Supply Low Black Toner Cleared Warning
    - Nov 15, 2010 5:38:41 PM \${configurationItem.ame} 10.195.7.106 Lexmark C930 Supply Low Black Toner Cleared InterventionRequired

MVE processes them correctly and separately.

- (PTR389667) A Lexmark C935 will not issue a 'Close Door' alert.
- (DE983/PTR389664/PTR389667) A Lexmark X792 will not issue a 'Cover Open' alert when the ADF cover is opened and closed.
- Due to enhanced security restrictions in Windows Server 2003 & Windows Server 2008, instances of Event Manager's Command Destination may fail. By default the Lexmark MarkVision Enterprise Windows Service runs as the *Local System* account. This seems to be the problem, as the OS returns a code of 128 (ERROR\_WAIT\_NO\_CHILDREN). To remedy the situation, the Service must be allowed to run as an *Administrator*; to do so, follow these steps:
  - Navigate to Control Panel->Administrative Tools->Services
  - Stop the 'Lexmark MarkVision Enterprise' service
  - Right click on 'Lexmark MarkVision Enterprise' service and click on 'Properties'
  - Go to 'Log On' tab and enable 'This account:' radio button and enter appropriate Administrator-level user credentials
  - Start the 'Lexmark MarkVision Enterprise' service
- Reports
  - If CSV output format is selected for report generation and the resulting CSV file is imported into Excel or Open Office Calc, leading zeros and/or spaces may be trimmed. This is a known issue with any CSV file import into a spreadsheet application. For any numeric field that contains leading zeros, Excel will trim the zeros unless the field is prefixed with an equals sign prior to the double quotation OR the user changes the type of the field during the import process. However, if equals signs are prepended to fields, MVE will be violating accepted CSV format conventions and may lose interoperability with other applications using CSV data.
- Browsers
  - Due to the way Firefox 3.x, Internet Explorer 8 and possibly other browsers load flash applications, it is not possible to force the initial focus to be on the password textfield; the user has to click on the application to give it focus and have the caret appear in the password field. This was not a problem with Internet Explorer 7.
  - Due to the way Internet Explorer 7 and possibly other browsers handle shortcuts, special care must be taken to use them within MVE. IE will not pass shortcut key combinations it defines for itself (e.g. CTRL+A) on to Flash applications running within it. To work around this, add the ALT key to the combination (e.g. ALT+CTRL+A). IE does not define this combination so it is passed on to the Flash application.
  - Internet Explorer 8 has a problem with Generic File Download. It does not recognize the Javascript and fails to upload or download the file.
  - Generic File Download does not work in the Safari browser running on Windows.

- Importing from MVP
  - In order to assign events to devices imported from MVP, you must run an Audit or Collect Current Status in MVE on the devices prior to assigning the event. This will allow MVE to collect enough information about the device to successfully make the assignment.
  
- Device Support
  - Lexmark
    - Due to firmware/hardware issues with the Forms 2580/2581/2590/2591 printers, if they boot up in the *Not Ready* state, MVE will be unable to communicate with them. The problem being, the NIC cannot talk to the printer when it's *Not Ready* so it cannot retrieve the Serial Number, which MVE needs in order to successfully discover it. Once the NIC can communicate with the printer, it will cache the Serial Number so subsequent *Not Ready* states will not be an issue (until the next reboot). The printer can come up in the *Not Ready* state for multiple reasons, including if it is out of paper. Pressing the Ready button should remedy the situation.
    - Due to a firmware issue, across multiple models, MVE cannot discover a printer whose SNMP Read Community Name contains a space. To remedy this, make sure the latest firmware is being used. If it still does not work, then the latest firmware does not contain this particular fix; contact Lexmark.
  - Canon
    - Due to manufacturer restrictions, the Canon Color imageRUNNER C3200 does not make it's Controller Version (i.e. Firmware Revision), Marking Technology, or Color Capability generally available in it's public MIB.
  - HP
    - Due to a firmware issue with the HP Color LaserJet 2550 series, it is not possible to retrieve any Options data. Also, the device incorrectly reports itself as being monochrome instead of color.
    - MVE will display Memory in both Capabilities and Options section for HP models as the printer's HOST\_RESOURCES MIB is being queried as part of the Options setting during the audit. This MIB will give all the resources (including RAM).
  - Xerox
    - The Xerox Phaser 3200MFP did not properly report its tray capacity in the SNMP MIB for the one printer we tested against. The Xerox's SNMP MIB reported that the capacity for the fixed input tray was 550 when the actual capacity is 250.

## Setting color print permissions

Markvision lets you restrict color printing for specific users on supported color printers on a network. You can also closely monitor color printing usage and save color printing resources by restricting color printing access.

Control user access to color printing by way of the following settings:

**Hosts Table**—Controls print permissions on a specific host computer, allowing you to override user-level permissions on a specific host computer.

**Users Table**—Displays and controls access to color printing by User ID.

To restrict color printing for specific users or host computers, do this:

1. Create a new Print policy. For information about creating a policy, see the *User's Guide*.
2. From the Settings section, do the following:

- To control color print permissions on a host computer, select **Color Print Permissions: Hosts Table**, and then click **View**.

- a. Click **+**, and then in the Host Name field, type the host computer name.
- b. Specify whether the host computer can print in color.
- c. Specify whether the host computer can override user-level permissions.
- d. Click **Save & Add** to continue adding other host computers, or click **Save** to return to the Host Table settings.

- To control color print permissions by User ID, select **Color Print Permissions: Users Table**, and then click **View**.

- a. Click **+**, and then in the User Name field, type the user name.
- b. Specify whether the user can print in color.
- c. Click **Save & Add** to continue adding other host computers, or click **Save** to return to the Users Table settings.

3. Save or cancel your new settings.

**Note:** The following tables illustrate some print permission setting scenarios.

### User table settings examples

User ID	Color	Result
Mary	On	Mary can print color on any selected printer.
Bob	Off	Bob cannot print color on any selected printer.

### Hosts table settings examples

Computer (host) name	Color	Over-ride	Result
MARYSPC	On	On	A user logged on to Mary's computer can print color on any selected printer,

			regardless of the user print permissions.
BOBSPC	Off	On	A user logged on to Bob's computer cannot print color on any selected printer, regardless of the user print permissions.
ANNSPC	On	Off	A user logged on to Ann's computer can print color on any selected printer, unless that user's User ID is <i>not</i> granted color printing permissions in the User Table.
JOHNSPC	Off	Off	A user logged on to John's computer will not be able to print color jobs unless that user's User ID is granted color printing permissions in the User Table.