

Microsoft® Deployment Toolkit 2010 Update 1

Release Notes

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# Introduction to Release Notes

Welcome to the release notes for Microsoft® Deployment Toolkit (MDT) 2010 Update 1. Read these Release Notes thoroughly before you install MDT 2010 Update 1: They contain information that you need to successfully install MDT 2010 Update 1 that may not be covered in the MDT help documentation.

MDT 2010 Update 1 provides new capabilities, such as:

* Support for Microsoft Office 2010.
* A new User-driven Installation (UDI) deployment method (formerly known as “Modena”) for Microsoft System Center Configuration Manager 2007. UDI gives information technology (IT) staff control over the deployment experience while empowering users to interact with and customize their operating system deployment through an easy-to-use wizard.
* Support for the Prestaged Media feature in System Center Configuration Manager 2007 R3 beta.
* Improvements to the Deployment Workbench driver import process, detecting each driver’s true supported platforms.
* Many bug fixes and other small improvements.

This release supports the deployment of the Windows® 7; Windows Vista®; Windows XP; Windows Server® 2008 R2; Windows Server 2008; and Windows Server 2003 operating systems. See the Microsoft Deployment Toolkit Documentation Library, which is included with MDT 2010 Update 1, for the complete documentation for this release.

## Feedback

Please direct questions and comments about this guide to [satfdbk@microsoft.com](mailto:satfdbk@microsoft.com?subject=Microsoft%20Deployment%20Toolkit%202010).

Please provide feedback on the usefulness of this guide by filling out the survey at <http://go.microsoft.com/fwlink/?LinkID=132579>.

# Prerequisites

For Lite Touch Installation (LTI) deployments, MDT 2010 Update 1 requires the following components, regardless of the operating system being deployed. Install these components only on the computer on which you install MDT 2010 Update 1:

* Microsoft Management Console (MMC) version 3.0
* Microsoft .NET Framework version 2.0 or version 3.5 with Service Pack 1 (SP1)
* Windows PowerShell™ version 1.0 or 2.0
* Windows Automated Installation Kit (Windows AIK) for Windows 7

For Zero Touch Installation (ZTI) deployments, MDT 2010 Update 1 requires the following components:

* If deploying Windows 7 or Windows Server 2008 R2, System Center Configuration Manager 2007 with SP2 is required. The installation of System Center Configuration Manager with SP2 also upgrades the Windows AIK to the version compatible with Windows 7.
* If deploying pre–Windows 7 versions of the Windows operating system (such as Windows Vista or Windows XP), you can continue to use System Center Configuration Manager 2007 with SP1. MDT 2010 Update 1 supports System Center Configuration Manager 2007 with SP1, although you cannot use the Deployment Workbench in this configuration to maintain an MDT database (MDT DB), as the Deployment Workbench requires the Windows AIK for Windows 7. If you are using an MDT DB with System Center Configuration Manager, use System Center Configuration Manager 2007 with SP2.

For UDI deployments, MDT 2010 Update 1 requires the following components:

* System Center Configuration Manager 2007 with SP2
* Microsoft .NET Framework 3.5 with SP1
* For the UDI web service:
* Microsoft Internet Information Services (IIS) 7.0 (including having IIS 6 Management Compatibility and Windows Authentication enabled)
* Microsoft ASP .Net 2.0 (build 2.0.5072)
* Microsoft SQL Server® 2008 or Microsoft SQL Server 2005

# Installing MDT 2010 Update 1

Make sure you have a complete backup of your server before installing MDT 2010 Update 1 on a computer that has an existing installation of Microsoft Business Desktop Deployment (BDD) 2007, MDT 2008, or MDT 2010.

The MDT 2010 Update 1 installation process removes any existing instances of BDD 2007, MDT 2008, or MDT 2010 installed on the same computer. Existing deployment shares, distribution points, and databases are preserved during this process but must be upgraded when the installation is complete.

## General

You no longer need to download the Windows User State Migration Tool (USMT) version 4.0 separately; it is part of the Windows AIK for Windows 7. USMT 4.0 supports capturing user state from all versions of Windows 7, Windows Vista, and Windows XP. If you are deploying Windows XP, continue to use USMT version 3.0 for that purpose.

### Support for Upgrading from Previous Versions of MDT and BDD

MDT 2010 Update 1 supports upgrading from the following versions of MDT and Microsoft Business Desktop Deployment (BDD):

* MDT 2010
* MDT 2008 Update 1
* BDD 2007 Update 2

Note   Create a backup of the existing MDT or BDD infrastructure before attempting an upgrade.

Note   MDT 2010 Update 1 does not support upgrading from MDT 2010 Update 1 beta to MDT 2010 Update 1 RTW.

## LTI Upgrade Process

After installing MDT 2010 Update 1, you can upgrade an existing deployment share from BDD 2007, MDT 2008 or MDT 2010 by running the Open Deployment Share Wizard from the Deployment Shares node in the Deployment Workbench. Specify the path to the existing deployment share directory, and then select the Upgrade check box. Note that doing so also upgrades existing network deployment shares and media deployment shares, so those should be accessible. Do not perform this upgrade while performing deployments, because in-use files can cause upgrade problems.

When the upgrade process is complete:

* Existing BDD 2007 or MDT 2008 media deployment shares are upgraded to media items in MDT 2010 Update 1. However, the items selected in the media deployment share are not preserved, such as applications, task sequences, driver groups, or package groups. Before updating the media, create folders for each type of item not migrated and a selection profile that selects each of those folders. Configure the media to use the selection profile, then update the media. For more information about media deployment shares, see the section, “Manage MDT 2010 Deployment Media,” in the MDT 2010 document, Using the Microsoft Deployment Toolkit.

Note   If you do not create the folders and selection profile, the media item will use the Everything selection profile, which includes all items and may not be the desired configuration.

* Existing BDD 2007 or MDT 2008 network deployment shares are upgraded to linked deployment shares in MDT 2010 Update 1. However, some of the items selected in the network deployment share are not preserved, such as applications, task sequences, or package groups.

Driver groups are migrated if they are configured to a value other than All Drivers. A selection profile named Windows PE Drivers for NETWORK is created for the driver group you select for Windows Preinstallation Environment (Windows PE) device drivers, and the linked deployment share is configured to use the migrated selection profile.

Before updating the linked deployment share, create folders for each type of item not migrated and a selection profile that selects each of those folders. Configure the linked deployment share to use the selection profile, then replicate the linked deployment share. For more information about linked deployment shares, see the section, “Manage Linked Deployment Shares,” in the MDT 2010 document, Using the Microsoft Deployment Toolkit.

Note   If you do not create the folders and selection profile, the linked deployment share will use the Everything selection profile, which includes all items and may not be the desired configuration.

* Existing BDD 2007 or MDT 2008 LAB deployment shares are upgraded to deployment shares in MDT 2010 Update 1. However, some of the items selected in the LAB deployment share are not preserved, such as applications, task sequences, or package groups.

Driver groups are migrated if they are configured to a value other than All Drivers. A selection profile named Windows PE Drivers for LAB is created for the driver group you select for Windows PE device drivers, and the linked deployment share is configured to use the migrated selection profile.

* Boot image settings for MDT 2008 media deployment shares are not preserved. Instead, the boot image settings from the parent deployment share are copied to the media. You may need to modify the boot image settings to reflect the original boot image settings.
* BDD 2007 task sequences are recreated using the LTI task sequence templates in MDT 2010 Update 1. Custom task sequence steps in task sequences created in BDD 2007 are moved to the Custom Tasks groups in the upgraded task sequence. After the upgrade, you may need to move the custom task sequence steps back into their correct place in the task sequence.

## ZTI Upgrade Process

Existing BDD 2007, MDT 2008, or MDT 2010 task sequences present in System Center Configuration Manager 2007 are not modified during the installation process of MDT 2010 Update 1 and should continue to work without any issue. No mechanism is provided to upgrade these task sequences. If you want to use any of the new MDT 2010 Update 1 capabilities, create new task sequences.

When the upgrade process is complete:

* Run the Configure ConfigMgr Integration Wizard. You must run this wizard after the upgrade to register the new components and install the updated ZTI task sequence templates.
* Run the Remove PXE Filter Wizard. If you had previously installed and configured the Pre-Boot Execution Environment (PXE) filter to support the unknown computer capability in previous versions of MDT. This support is now provided in System Center Configuration Manager 2007 R2 and is not available in MDT 2010 Update 1.
* Ensure that you create a new Microsoft Deployment Toolkit Files package for any new ZTI task sequences you create. You can use the existing Microsoft Deployment Toolkit Files package for any ZTI task sequences created prior to the upgrade, but you must create a new Microsoft Deployment Toolkit Files package for new ZTI task sequences.
* Ensure that any ZTI task sequences created prior to the upgrade use the Microsoft Deployment Toolkit Files package that existed prior to the upgrade. You can modify these ZTI task sequences, but you cannot use any of the new MDT 2010 Update 1 task sequence actions or steps. To use the new MDT 2010 Update 1 task sequence actions or steps, create a new ZTI task sequence.

# Known Issues

The known issues in MDT 2010 Update 1 are categorized as follows:

* For LTI deployments only as described in [Known Issues for LTI Deployments Only](#_Known_Issues_for)
* For ZTI deployments only as described in [Known Issues for ZTI Deployments Only](#_Known_Issues_for_1)
* For LTI and ZTI deployments as described in [Known Issues for LTI and ZTI Deployments](#_Known_Issues_for_2)
* For UDI deployments as described in [Known Issues for UDI Deployments](#_Known_Issues_for_3)

## Known Issues for LTI Deployments Only

The following is a list of known issues that relate to LTI deployments only:

* For LTI deployments, the installation of custom Windows 7 Windows Imaging (WIM) images may prompt you for a language when the custom Windows 7 WIM image was imported into the Deployment Workbench using the Setup and sysprep files are not needed option in the Import Operating System Wizard's Setup page.

One workaround is to re-import the custom Windows 7 WIM image using the Copy Windows Vista, Windows Server 2008 or later setup files from the specified path instead of the Setup and sysprep files are not needed option on the Setup wizard page.

* Do not create a deployment share, linked deployment share, or media within another deployment share, linked deployment share, or media. The following are examples of invalid configurations:
* Create a deployment share in C:\DS01, and then create a second deployment share in C:\DS01\DS02.
* Create a deployment share in C:\DS01, and then create media in C:\DS01\MEDIA\_01.
* Create a deployment share in C:\DS01, and then create a linked deployment share in C:\DS01\LDS02.
* Create media in C:\MEDIA\_01, and then create a deployment share in C:\MEDIA\_01 \DS01.
* Disable antivirus programs on the lab computer before capturing an image of the lab computer’s disk. Antivirus programs can interfere with the configuration of the image and the installation of applications during deployment. After deployment, reactivate the antivirus programs. Before beginning deployment, test the interaction of antivirus programs with MDT 2010 Update 1.
* Within a folder, avoid creating a subfolder and a file with the same name. For example, within the Files folder, you should not name a subfolder Item, and then create a file named Item.
* The error message “Cannot Find Driver Path” can appear if you choose to optimize a Windows PE image and select drivers that are not available in the deployment share. To work around this problem, select the Completely Regenerate The Boot Images option.
* When upgrading network and media deployment shares created in earlier versions of MDT or BDD 2007, the Universal Naming Convention (UNC) paths specified for each network and media deployment share must be valid and accessible. If the UNC paths are invalid, an error will be generated, but the upgrade process will continue.
* The Validate Task Sequence step returns an “insufficient processor speed” error in Microsoft Virtual PC running on Windows 7, as WMI returns incorrect processor speed. To work around this issue, clear the Ensure minimum processor speed check box in the Validate task sequence step.

## Known Issues for ZTI Deployments Only

The following is a list of known issues that relate to both LTI and ZTI deployments:

* Refreshing a computer using ZTI and UDI task sequences fails when local admin accounts are present on the computer.
* Task sequences fail when the default Capture User State step has Capture all user profiles with standard options selected but the default Restore User State step has the Restore local computer user profiles check box cleared and System Center Configuration Manager 2007 cannot migrate the new accounts without assigning them passwords. To work around this issue, users must manually modify the task sequence, selecting the option to migrate local accounts and must specify a password to be used with the local account. For details, see Capture User State at <http://technet.microsoft.com/en-us/library/bb680924.aspx>.
* The MDT task sequence does not resume after installing the Hyper-V™ role using the Install roles and features step. The workaround is to enable the Hyper-V role in the operating system image offline using Deployment Image Servicing and Management (DISM) commands.
* When running a ZTI Replace task sequence that uses USMT 4 to migrate from Windows XP to either Windows Vista or Windows 7, files are properly captured and restored, but settings are not, because the Scanstate.exe process cannot find the DlManifests folder. To work around this issue, edit the Replace task sequence as documented in the Microsoft Support article, "When using USMT 4 in a Configuration Manager 2007 SP2 OSD Task Sequence, files are captured successfully but settings are not," at <http://support.microsoft.com/kb/2018593>.

## Known Issues for LTI and ZTI Deployments

The following is a list of known issues that relate to both LTI and ZTI deployments:

* LTI and ZTI deployment processes are unable to perform System Preparation Tool (Sysprep) operations on a target computer that is encrypted using BitLocker® Drive Encryption, such as preparing a reference computer for capture, and then capturing an image of the reference computer. Modify the task sequences that the MDT 2010 Update 1 task sequence templates create to disable drive encryption prior to running any task sequence steps that perform Sysprep operations and capture an image of the target computer.
* The USMT will fail if the user enters a path surrounded by quotation marks that also ends in a backslash (\). To prevent problems, simply leave off the final backslash when specifying a folder. For example, the following paths will cause an error:
* D:\
* D:\folder\
* When specifying a Run As account, specify a user who is a member of the Administrators group on the server. Otherwise, the account will not have sufficient privileges to access network connections that administrators establish.
* During the Scanstate and Loadstate processes, multiple copies of log files may be created. You can use a new USMT template for excluding the log files or log directories while running Scanstate and Loadstate.

## Known Issues for UDI Deployments

The following is a list of known issues that relate to UDI deployments:

* If you receive error 404.3 when browsing to the UDI Designer web service, this error is typically the result of the Windows Communication Foundation (WCF) multipurpose Internet mail extensions (MIME) type not being registered correctly. To register the WCF MIME type on the web server, go to %Windir%\Microsoft.NET\Framework\v3.0\Windows Communication Foundation. From an elevated command prompt, run ServiceModelReg.exe –I to register the MIME type for the .svc extension, which the web service requires.
* When you use an x64 boot image for operating system deployments, the status background bitmap will not be displayed in the Windows PE environment.
* To install language packs, you must configure the list of language packs in the UDI Wizard Designer. For each language pack, add the Install Language Pack task sequence step in the UDI task sequence and point to the Language Pack package.
* If you are using stand-alone media, the value displayed for Deployment Time by OSDResults at the end of the deployment is not guaranteed correct, because a network connection is not assumed to be available when using stand-alone media. Therefore, the machine’s basic input/output system (BIOS) clock cannot be synced to a correct time. In some cases, the deployment time may show a negative number, as occurs when the time available from Windows PE at the start is incorrectly set with a value that is actually later than the time at which the deployment finishes.
* Refreshing a computer using ZTI and UDI task sequences fails when local admin accounts are present on the computer. Task sequences also fail when the default Capture User State step has Capture all user profiles with standard options selected but the default Restore User State step has the Restore local computer user profiles check box cleared and System Center Configuration Manager 2007 cannot migrate the new accounts without assigning them passwords. To work around this issue, users must manually modify the task sequence, selecting the option to migrate local accounts, and must specify a password to be used with the local account. For details, see Capture User State at <http://technet.microsoft.com/en-us/library/bb680924.aspx>.
* In the case of UDI, the OSDDomainName task sequence variable is case sensitive. When setting the OSDDomainName value through a task sequence step or in CS.ini, it must be an exact match to the domain value set in the UDI configuration file.
* The Computer page in the UDI Wizard cannot be set to silent when the Workgroup option is selected. To work around this issue, disable the Computer page, and make sure that the OSDComputerName and OSDWorkgroupName variables are set.