

Microsoft Deployment Toolkit 2012 Update 1

What’s New in MDT?

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# Introduction to What’s New in MDT

Microsoft® Deployment Toolkit (MDT) 2012 Update 1 is the next version of the Microsoft Solution Accelerator for operating system and application deployment. The purpose of this guide is to explain the changes in MDT 2012 Update 1 from MDT 2010 Update 1 Beta.

This guide specifically discusses the MDT 2012 Update 1 release and assumes familiarity with previous MDT version concepts, features, and capabilities.

Note   In this document, Windows applies to the Windows® 8, Windows 7, Windows Vista®, Windows XP Professional, Windows XP Tablet PC Edition, Windows Server® 2012, Windows Server 2008 R2, Windows Server 2008, and Windows Server 2003 operating systems unless otherwise noted. MDT does not support ARM processor–based versions of Windows. Similarly, MDT refers to MDT 2012 Update 1 unless otherwise stated.

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# What’s New in This Release?

MDT includes several improvements that add new features and improve you user experience with MDT. This document presents these MDT based on the MDT technologies that you use, including deployments performed using:

 Any MDT technology, including Lite Touch Installation (LTI), Zero Touch Installation (ZTI), and User-Driven Installation (UDI) deployments as described in [Improvements for All MDT Technologies](#_MDTWHATImprforAllMDTTech)

 LTI as described in [Improvements for LTI Deployments](#_MDTWHATImprforLTIDepl)

 Microsoft System Center 2012 Configuration Manager or System Center Configuration Manager 2007 R3, including ZTI and UDI deployments, as described in [Improvements for Configuration Manager Deployments](#_MDTWHATImprforConfManaDepl)

## Improvements for All MDT Technologies

The MDT improvements that affect all MDT technologies, which are discussed in a subsequent section, are as follows:

 Support for upgrading from previous versions of MDT as described in [Support for Upgrading from Previous Versions of MDT](#_MDTWHATSuppforUpgrfromPrevVerso)

 Support for Windows 8 and Windows Server 2012 as described in [Support for Windows 8 and Windows Server 2012](#_MDTWHATSuppforWind8andWindServ2)

 Support for the Windows Assessment and Deployment Kit (Windows ADK) as described in [Support for the Windows ADK](#_MDTWHATSupportfortheWindowsADK)

 Support for the deployment of the Microsoft Diagnostics and Recovery Toolkit (DaRT) as described in [Support Deployment of DaRT](#_MDTWHATSupportDeploymentofDaRT)

 Support for deployment to computers that use the Unified Extensible Firmware Interface (UEFI) specification as described in [Support Deployment to Computers that Use the UEFI Standard](#_MDTWHATSuppDepltoCompthatUsethe)

 Support for deployment to computers that require the new globally unique identifier (GUID) Partition Table (GPT) format as described in [Support Deployment to Computers that Require the New GPT Format](#_MDTWHATSuppDepltoCompthatRequth)

 Support for the deployment of Windows Thin PC as described in [Support for Windows Thin PC Deployment](#_MDTWHATSuppforWindThinPCDepl)

 Support for the deployment of Windows Embedded POSReady 7 as described in [Support for Windows Embedded POSReady 7 Deployment](#_MDTWHATSuppforWindEmbePOSR7Depl)

 Perform offline migration of user state using the Windows User State Migration Tool (USMT) as described in [Perform USMT Offline User State Migration](#_MDTWHATPerfUSMTOfflUserStatMigr)

 Install or uninstall Windows roles and features using MDT as described in [Install or Uninstall Windows Roles or Features](#_MDTWHATInstorUninWindRoleorFeat)

 Initiate Microsoft System Center 2012 - Orchestrator runbooks in MDT as described in [Initiate Orchestrator Runbooks in MDT](#_MDTWHATInitOrchRunbinMDT)

 Integration with security and compliance templates generated by Microsoft Security Compliance Manager (SCM) version 2.0 as described in [Integration with Security Compliance Manager Templates](#_MDTWHATIntewithSecuCompManaTemp)

 Run Windows PowerShell™ scripts within an MDT task sequence, including Windows PowerShell version 3.0, as described in [Run Windows PowerShell Scripts in Task Sequences](#_MDTWHATRunWindPoweScriinTaskSeq)

 Create partitions to support best practice recommendations for deployment of BitLocker® Drive Encryption as described in [Create Partitions to Support BitLocker Drive Encryption](#_MDTWHATCreaParttoSuppBitLDrivEn)

 Automatically configure participation in the Windows Customer Experience Improvement Program (CEIP) and Windows Error Reporting (WER) as described in [Automated Participation in CEIP and WER](#_MDTWHATAutoPartinCEIPandWER)

 Guidance that describes how to use Microsoft SQL Server® 2008 R2 with Service Pack 1 (SP1) for all database needs within MDT as described in [Improved Guidance for Using SQL Server 2008 R2 with SP1](#_MDTWHATImprGuidforUsinSQLServ20)

 The ability to monitor an MDT deployment as described in [Monitor the MDT Deployment Process](#_MDTWHATMonitheMDTDeplProc)

 Support for Microsoft Office Professional Plus 2013 as described in [Support for Microsoft Office Professional Plus 2013 Customer Preview](#_MDTWHATSuppforMicrOffiProfPlus2)

In addition, this release of MDT includes many other small enhancements and bug fixes.

### Support for Upgrading from Previous Versions of MDT

MDT supports upgrading from the following versions of MDT:

 MDT 2012

 MDT 2010 Update 1

 MDT 2010 RTW

 MDT 2008 Update 1

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

### Support for Windows 8 and Windows Server 2012

You can use MDT to deploy the Windows 8 and Windows Server 2012 operating systems using the LTI, ZTI, and UDI deployment methods. Currently, Windows 8 and Windows Server 2012 are only supported in lab environments, not in production environments.

### Support for the Windows ADK

MDT supports the use of the Windows ADK to deploy operating systems. The Windows ADK includes the deployment tools that were previously released as a part of the Windows OEM Preinstallation Kit and the Windows Automated Installation Kit (Windows AIK).

Windows ADK requires the Microsoft .NET Framework version 4.0. If not already installed, the Windows ADK installation installs the Microsoft .NET Framework version 4.0. For more information, see [Introduction to the Windows Assessment and Deployment Kit](http://www.microsoft.com/download/en/details.aspx?id=27410).

### Support Deployment of DaRT

DaRT is included as a part of the [Microsoft Desktop Optimization Pack](http://www.microsoft.com/en-us/windows/enterprise/products-and-technologies/mdop/default.aspx), which is provided as a part of Microsoft Software Assurance. You can deploy DaRT in the Windows Recovery Environment (Windows RE) partitions to target computers using MDT. The following is a summary of the DaRT features:

 Fourteen administrative, system, and network tools provide many options for recovery, even when Windows Safe mode or normal startup will not function.

 An easy-to-use, offline boot environment helps IT teams quickly restart computers.

 Helps recover deleted files and reset lost or forgotten local passwords, even the administrator’s.

 Provide remote control of computer when running in Windows PE using the MDT monitoring feature. For more information, see the section, "View MDT Deployment Progress", in the MDT document Using the Microsoft Deployment Toolkit.

For more information about deployment of DaRT using MDT, see the following sections in the MDT document Using the Microsoft Deployment Toolkit:

 "Enable DaRT Support in LTI"

 "Supporting DaRT in ZTI and UDI Boot Images"

### Support Deployment to Computers that Use the UEFI Standard

UEFI is a specification that defines a software interface between an operating system and platform firmware. UEFI is a more secure replacement for the older basic input/output system (BIOS) firmware interface present in some personal computers, which is vulnerable to malware that performs attacks during the boot or power on self-test processes.

By default, MDT creates the appropriate partitions to support computers running UEFI. MDT supports UEFI versions from 2.0 up to 2.3.1. UEFI 2.3.1 is a newer version of UEFI that will be used on Windows 8 logo–compliant computers. UEFI requires the use of the new GPT partition format, which is described in the section, [Support Deployment to Computers that Require the New GPT Format](#_MDTWHATSuppDepltoCompthatRequth).

Support for this feature in ZTI and UDI requires System Center 2012 Configuration Manager with SP1 Community Technology Preview (CTP). This feature is fully supported in LTI.

Note   The Windows ADK is required when deploying a Windows operating system to a computer with UEFI 2.3.1.

For more information about UEFI support in MDT, see the section, "Deploy to Computers with UEFI", in the MDT document Using the Microsoft Deployment Toolkit.

### Support Deployment to Computers that Require the New GPT Format

MDT supports deployment of 64-bit versions of Windows operating systems that require the new GPT format, not the traditional master boot record partition table format. For more information about GPT format support in LTI, see the section, "Review the Default Partition Configuration Created by MDT", in the MDT document Using the Microsoft Deployment Toolkit. The GPT partition format is only used by computers that use UEFI, which is described in the section, [Support Deployment to Computers that Use the UEFI Standard](#_MDTWHATSuppDepltoCompthatUsethe).

Note   Support for this feature in ZTI and UDI requires System Center 2012 Configuration Manager with SP1 CTP.

### Support for Windows Thin PC Deployment

Windows Thin PC enables customers to repurpose existing PCs as thin clients by providing a smaller-footprint, locked-down version of Windows 7. MDT supports deployment of Windows Thin PC. For more information, see [Windows Thin PC](http://www.microsoft.com/en-us/windows/enterprise/products-and-technologies/virtualization/thinpc.aspx).

### Support for Windows Embedded POSReady 7 Deployment

Windows Embedded POSReady 7 (POSReady 7) is an operating system optimized for point-of-service solutions that unleashes the power of the Windows 7 platform to deliver attractive and compelling user experiences, simplifying management and deployment as well as ease of connection to the familiar world of Windows. MDT supports deployment of POSReady 7. For more information, see [Windows Embedded POSReady 7](http://www.microsoft.com/windowsembedded/en-us/evaluate/windows-embedded-pos-ready.aspx).

### Perform USMT Offline User State Migration

USMT can perform offline migration of user state from a computer. In an offline migration, the capture is performed in Windows Preinstallation Environment (Windows PE) instead of the existing operating system. The advantages of performing an offline user state migration are as follows:

 You do not need to log on to the computer on which you are capturing user state.

 Hardware resources and files are more readily accessible by ScanState and other USMT tools.

 May increase performance on older computers that have limited hardware resources and numerous software applications.

 Doing so helps avoid conflicts where a file is in use by another application or service.

 You may be able to use an offline migration to recover files and settings if a computer no longer starts properly.

MDT supports USMT offline user state migration using the Offline User State Capture task sequence step, which is included in the appropriate MDT task sequence templates. The Offline User State Capture task sequence step runs the ZTIUserState.wsf script, which is responsible for capturing the user state using USMT.

For more information, see the following sections in the MDT document Using the Microsoft Deployment Toolkit:

 "Saving and Restoring User State Information"

 "Configure USMT Offline User State Migration"

### Install or Uninstall Windows Roles or Features

MDT automates the installation and uninstallation of Windows roles and features using the Install Roles and Features and Uninstall Roles and Features task sequence step types. These task sequence types allow you to deploy the target computers with the Windows roles and features that comply with configuration standards defined by organizational or regulatory authorities.

For more information, see the following section, "Configuring Roles and Features Task Sequence Steps", in the MDT document Using the Microsoft Deployment Toolkit

### Initiate Orchestrator Runbooks in MDT

[Orchestrator](http://technet.microsoft.com/en-us/library/hh237242) can tie disparate tasks and procedures together by using the Runbook Designer graphical user interface to create reliable, flexible, and efficient end-to-end solutions in the IT environment.

You can carry out the following tasks using Orchestrator:

 Automate processes in your data center, regardless of hardware or platform.

 Automate your IT operations and standardize best practices to improve operational efficiency.

 Connect different systems from different vendors without having to know how to use scripting and programming languages.

An Orchestrator runbook is the sequence of activities that orchestrate actions on computers and networks. You can initiate Orchestrator runbooks in MDT using the Execute Runbook task sequence step type.

For more information about running Orchestrator Runbooks in MDT, see the section, "Running Orchestrator Runbooks", in the MDT document Using the Microsoft Deployment Toolkit

### Integration with Security Compliance Manager Templates

MDT allows you to apply security and compliance configuration templates to the operating system as a part of the deployment process. The security and compliance configuration templates are exported from the SCM to a Group Policy object (GPO) pack that MDT can use.

This feature is provided by including the Apply Local GPO Package task sequence step, which is included in the appropriate MDT task sequence templates. The Apply Local GPO Package task sequence step runs the ZTIApplyGPOPack.wsf script, which is responsible for applying the GPO packs to the target computer.

The appropriate GPO pack is selected based on the operating system being deployed. MDT includes GPO packs for the following operating systems:

 Windows 7 with SP1

 Windows Server 2008 R2 with SP1

 Windows Server 2008 with SP2

 Windows Vista with SP2

Note   SCM does not include security and compliance configuration templates for the Windows 8 or Windows Server 2012 operating systems.

You can create GPO packs that are customized for your organization using the SCM. You can add new GPO packs to support operating system updates as they become available using the SCM, as well.

For more information about this new feature, see the section, "Applying Group Policy Object Packs", in the MDT document Using the Microsoft Deployment Toolkit.

### Run Windows PowerShell Scripts in Task Sequences

MDT supports running Windows PowerShell scripts as a part of the deployment process, including Windows PowerShell version 3.0, which is included in Windows 8, Windows Server 2012, and Windows PE 4.0. You can develop Windows PowerShell scripts to help automate the deployment process, and then run those scripts within an MDT task sequence.

Run the Windows PowerShell scripts using a task sequence step created using the Run PowerShell Script task sequence step type. You can add a task sequence step based on the Run PowerShell Script task sequence step type for task sequences in LTI, ZTI, or UDI.

For more information about this new feature, see the section, "Running Windows PowerShell Scripts During Deployment", in the MDT document Using the Microsoft Deployment Toolkit.

### Create Partitions to Support BitLocker Drive Encryption

The MDT deployment processes automatically create the necessary disk partitions to take full advantage of the features that the target computer and operating system provide. The partition geometry that MDT creates supports recommended partition configuration to support BitLocker.

For more information about this new feature, see the section, "Review the Default Partition Configuration Created by MDT", in the MDT document Using the Microsoft Deployment Toolkit.

### Automated Participation in CEIP and WER

MDT includes a new task sequence step that automates the configuration of participation in [Windows Customer Experience Improvement Program](http://windows.microsoft.com/da-DK/windows-8/privacy-statement?T1=server#section_9) and [Windows Error Reporting: Getting Started](http://msdn.microsoft.com/en-us/windows/hardware/gg487440). The Opt In to CEIP and WER task sequence step is used to automate this participation.

Note   Although you can use MDT task sequences to enable CEIP and WER for Windows operating systems (only when the corresponding task sequence step is enabled), this is separate from the CEIP information gathered when you opt in to the MDT CEIP program. For more information about what information is sent by MDT when CEIP is enabled, see <http://go.microsoft.com/fwlink/?LinkID=255311>.

The Opt In to CEIP and WER task sequence step is included in the following MDT task sequence templates but is disabled by default:

 Standard Client Task Sequence in LTI, ZTI with Configuration Manager 2012, and ZTI with Configuration Manager 2007 R3

 Standard Server Task Sequence in LTI, ZTI with Configuration Manager 2012, and ZTI with Configuration Manager 2007 R3

 Deploy to VHD Client Task Sequence in LTI

 Deploy to VHD Server Task Sequence in LTI

 User-Driven Installation Task Sequence in UDI

For more information, see the section, "Enabling Participation in CEIP and WER", in the MDT document Using the Microsoft Deployment Toolkit.

### Improved Guidance for Using SQL Server 2008 R2 with SP1

The Microsoft Deployment Toolkit Documentation Library has been updated to provide guidance for using SQL Server 2008 R2 with SP1 for any database needs within MDT, including:

 The Configuration Manager 2012 site database

 The Configuration Manager 2007 R3 site database

 The MDT database (MDT DB), which is used to store MDT configuration settings

### Monitor the MDT Deployment Process

MDT includes a new monitoring feature that allows you to perform centralized monitoring of all MDT deployments, including LTI, ZTI, and UDI deployments. You can monitor MDT deployments in the Monitoring node in the Deployment Workbench or using the Get-MDTMonitorData cmdlet. The MDT deployment progress is displayed as a percentage of completion based on the completion of the steps in the task sequence.

For more information about the new Monitoring feature for MDT, see the section, "Monitoring MDT Deployments", in the MDT document Using the Microsoft Deployment Toolkit.

### Support for Microsoft Office Professional Plus 2013 Customer Preview

MDT supports the MSI-based deployment of Microsoft Office Professional Plus 2014 Customer Preview. You can use MDT to customize the deployment of Microsoft Office Professional Plus 2013 Customer Preview as a part of the MDT deployment process. MDT does not support Click-to-Run installation used by [Office 365 ProPlus](http://www.microsoft.com/office/preview/en/office-365-proplus).

## Improvements for LTI Deployments

MDT includes the following improvements for LTI deployments:

 Support for Windows 8 application package deployment. LTI supports the deployment of applications based on the new Windows application package standard, which is used in Windows 8. The Windows application package standard is based on the Open Packing Conventions (OPC) standard. OPC defines a structured means to store data and resources for the application using a standard ZIP file. Windows 8 and the Windows Store use the Windows application packaging standard for applications.

You can import Windows 8 application packages using the Deployment Workbench. Then, you can select the Windows 8 application packages for deployment using the Deployment Wizard.

For more information on how to deploy Windows 8 application packages using LTI, see the section, "Deploying Windows 8 Applications Using LTI", in the MDT document Microsoft Deployment Toolkit Samples Guide.

 Deployment of Windows RE. Windows RE helps users troubleshoot and recover from startup-related problems on their computers. The Deployment Workbench can automatically generate .iso and .wim files that contain Windows RE support, allowing you to deploy Windows RE to target computers using LTI.

For more information about deployment of Windows RE using LTI, see the section, "Enable Windows RE Support in LTI", in the MDT document Using the Microsoft Deployment Toolkit.

 Deployment to virtual hard disks (VHDs) for native boot. Native boot allows VHDs to run on a computer without a virtual machine or hypervisor. Native boot is supported in Windows 7 and Windows Server 2008 R2. LTI supports the deployment to VHDs to support native boot.

For more information about LTI support for deployment to VHDs for native boot, see the following sections in the MDT document Using the Microsoft Deployment Toolkit:

 "Prepare for Deployment to Virtual Hard Disks with Native Boot"

 "Configure the Create VHD Disk Task Sequence Step Type"

 Add local administrator accounts. LTI supports the ability to add multiple user accounts to the local Administrators group on the target computers. The Deployment Wizard includes an additional wizard page that provides the ability to include additional local administrator accounts during the LTI deployment process interactively.

For more information about the Deployment Wizard user experience, see the section, "Running the Deployment Wizard", in the MDT document Using the Microsoft Deployment Toolkit.

 Deployment Wizard user experience improvements. The Deployment Wizard user interface (UI) has been redesigned to closely model the user experience with System Center products, such as Configuration Manager 2012. The streamlined UI allows you to be more productive performing LTI deployments than in prior versions of MDT.

For more information about the Deployment Wizard user experience, see the section, "Running the Deployment Wizard", in the MDT document Using the Microsoft Deployment Toolkit.

In addition, this release of MDT includes many other small enhancements and bug fixes that relate to LTI deployments.

## Improvements for Configuration Manager Deployments

MDT includes the following improvements for MDT deployments with Configuration Manager 2012 or Configuration Manager 2007 R3:

 Support for Configuration Manager 2012 with SP1 CTP. MDT includes support for Configuration Manager 2012 with SP1 CTP for ZTI and UDI deployments, which allows MDT to leverage the new features in Configuration Manager 2012 that permit highly automated deployment, asset inventory, software deployment, and patch management for dynamic environments, such as cloud services. Specifically, Configuration Manager 2012 with SP1 CTP supports deployment of Windows 8 and Windows Server 2012 using ZTI and Windows 8 using UDI.

 Support for new application model in Configuration Manager 2012. MDT includes support for the new application model in Configuration Manager 2012 in ZTI and UDI deployments, which includes improvements over the packages and programs model. For more information, see the “Application Management” section in [What’s New in Configuration Manager](http://technet.microsoft.com/en-us/library/gg699359.aspx#WhatsNew_Software).

 Support for the user device affinity feature in Configuration Manager 2012. MDT includes support for the new user device affinity feature in Configuration Manager 2012 in ZTI and UDI deployments, which allows you to associate a user with specified devices. In this way, you can deploy software to a user rather than a device. For more information, see the “Application Management” section in [What’s New in Configuration Manager](http://technet.microsoft.com/en-us/library/gg699359.aspx).

 Support for prestart command files. The Task Sequence Media Wizard includes steps to add prestart command files (formerly pre-execution hooks) to prestaged media, bootable media, and stand-alone media. MDT supports the use of this feature. For example, this feature allows you to create a separate software distribution package (such as the MDT scripts or wizards), and then include that package in the bootable media. For more information, see [What’s New in Configuration Manager](http://technet.microsoft.com/en-us/library/gg699359.aspx).

 Support for automatically starting a specific task sequence. You can use the SMSTSPreferredAdvertID task sequence variable to specify the task sequence used for deployment. Doing so allows you to programmatically select a task sequence. For example, you could develop a custom UI to select a specific task sequence. For more information, see [What’s New in Configuration Manager](http://technet.microsoft.com/en-us/library/gg699359.aspx).

 Support for Windows 8 application package deployment in UDI. UDI supports the deployment of applications based on the new Windows application package standard, which is used in Windows 8. The Windows application package standard is based on the OPC standard. OPC defines a structured means to store data and resources for the app using a standard ZIP file. Windows 8 and the Windows Store use the Windows application packaging standard for applications.

Users can select Windows 8 application packages in the UDI Wizard that are defined in Configuration Manager 2012. Support for Windows 8 application packages requires System Center 2012 Configuration Manager with SP1 CTP.

For more information on how to deploy Windows 8 application packages using UDI, see the section, "Deploying Windows 8 Applications Using UDI", in the MDT document Microsoft Deployment Toolkit Samples Guide.

 UDI Wizard user experience improvements. UDI allows you to interactively provide essential deployment configuration information to MDT at the time of deployment. UDI provides an easy-to-use interface to collect the necessary configuration settings, and then complete the deployment of Windows 7 and your applications.

The UDI Wizard has been completely revised to improve user experience. The improved UI makes deploying Windows 7 and your applications easier than the previous version. The wizard more closely models the UI in System Center products, such as Configuration Manager 2012.

For more information on the UDI Wizard, see the following resources:

 The section, "Running the UDI Wizard", in the MDT document Using the Microsoft Deployment Toolkit

 Quick Start Guide for User-Driven Installation

 UDI Wizard Designer user experience improvements. The UDI Wizard Designer is used to configure the user experience in the UDI Wizard. The UDI Wizard Designer allows you to add and remove wizard pages, change the sequence of wizard pages, and customize the controls on the wizard pages.

The UDI Wizard Designer UI has been improved to make configuring the UDI Wizard even easier than previous versions. The UDI Wizard Designer supports a drag-and-drop UI that allows you to quickly and efficiently customize the UDI Wizard for your organization.

For more information on the UDI Wizard Designer, see the following resources:

 The section, "Configuring UDI Wizard Behavior", in the MDT document Using the Microsoft Deployment Toolkit

 Quick Start Guide for User-Driven Installation

 Create custom wizard pages in the UDI Wizard Designer. There may be instances in which you want to collect additional deployment information to be used in UDI. You can create custom wizard pages to collect this information using the Build Your Own Page feature in UDI. This feature allows you to create a custom wizard page for collecting deployment information without requiring you to write code or have developer skills.

For more information on the Build Your Own Page feature in UDI, see the following resources:

 The section, "Creating Custom Wizard Pages Using the Build Your Own Page Feature", in the MDT document Using the Microsoft Deployment Toolkit

 Quick Start Guide for User-Driven Installation

 Single MDT task sequence template for ZTI and UDI client deployment. MDT now has a unified task sequence template for performing client deployment. The MDT Client Task Sequence task sequence template can be used to perform ZTI or UDI client deployments. The Deployment Method wizard page in the Create MDT Task Sequence Wizard is used to configure the Client Task Sequence task sequence template for use with ZTI or MDT.

For more information, see the section, "Identify the UDI Task Sequence Templates in MDT", in the MDT document Using the Microsoft Deployment Toolkit

 Support for enabling BitLocker in UDI. UDI now supports enabling BitLocker as a part of deployments performed using UDI. For more information see the section, "BitLockerPage", in the MDT document Toolkit Reference.

 Support for MDT Replace Computer deployment scenario. UDI now supports the MDT Replace Computer deployment scenario. For more information about the MDT Replace Computer deployment scenario and other MDT deployment scenarios that UDI supports, see the section, "UDI Stage Reference", in the MDT document Toolkit Reference.

 Localization of UDI Wizard. The UDI Wizard now supports localization of the information displayed on the wizard pages. This allows you to create wizard pages that are localized to the native language of the users using the UDI Wizard to perform deployments.

 Guidance for customizing UDI. The User-Driven Installation Developers Guide has been added to the Microsoft Deployment Toolkit Documentation Library. This guide provides information for developers who want to create custom UDI wizard pages, UDI wizard page editors, UDI tasks, or UDI validators. For more information, see User-Driven Installation Developers Guide.

 Upgrade task sequences created in Configuration Manager 2007 to Configuration Manager 2012. MDT upgrades task sequences created for Configuration Manager 2007 for use in Configuration Manager 2012 if the same version of MDT is used in both versions of Configuration Manager. For example, MDT 2012 must be used in both versions of Configuration Manager for the upgraded task sequences to run properly.

Some capabilities (such as the installation of applications using the new application model in Configuration Manager 2012) will not be present in task sequences that are upgraded. However, these steps can be manually added to upgraded task sequences, as required.

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

 Guidance for Configuration Manager 2007 R3. The Microsoft Deployment Toolkit Documentation Library has been updated to provide guidance for using Configuration Manager 2007 R3 in ZTI and UDI deployments. This guide helps you deploy your operating systems and applications using Configuration Manager 2007 R3 and MDT faster than previous versions of MDT.

Note MDT has been tested and verified to work with Configuration Manager 2007 R3. MDT should work with Configuration Manager 2007 with SP2 and later, as well, but this has not been tested or verified.

In addition, this release of MDT includes many other small enhancements and bug fixes that relate to ZTI and UDI deployments.

# What’s Been Removed from This Release?

This release of MDT does not include the following features that existed in previous versions of MDT:

 Support for deployment of Windows 8 Release Preview

 Support for deployment of Windows 8 Consumer Preview

 Support for deployment of Windows Server 2012 Release Candidate

 Support for deployment of Windows “8” Server Beta

 Support for prerelease versions of Configuration Manager 2012

 Support for installation of MDT on Windows Server 2003

 Support for installation of MDT on Windows Vista

 Support for installation of MDT on Windows XP

 Support for Windows Deployment Services running on Windows Server 2003

 Original equipment manufacturer task sequence templates from ZTI (Instead, use the prestaged media capabilities in Configuration Manager 2012 and Configuration Manager 2007 R3.)

# Operating System Support in This Release

Note   Support for Windows 8 and Windows Server 2012 in ZTI and Windows 8 in UDI requires System Center 2012 Configuration Manager with SP1 CTP.

Table 1 lists the operating system support that LTI and ZTI deployments provide in this release of MDT.

Table 1. MDT Operating System Support

| Operating system | LTI | ZTI | UDI |
| --- | --- | --- | --- |
| Windows 8 | ● | ● | ● |
| Windows Server 2012 | ● | ● |  |
| Windows 7  | ● | ● | ● |
| Windows Server 2008 R2  | ● | ● |  |
| Windows PE version 4.0 | ● | ● | ● |
| Windows PE version 3.1 | ● | ● | ● |
| Windows PE version 3.0  | ● | ● | ● |
| Windows Vista (with SP1 and later) | ● | ● |  |
| Windows Server 2008 (all service pack levels) | ● | ● |  |
| Windows XP (with SP3) | ● | ● |  |
| Windows Server 2003 R2  | ● | ● |  |

● = supported

# Windows ADK and Windows AIK Support

Table 2 lists the Windows ADK and Windows AIK support that LTI, ZTI, and UDI deployments provide in MDT.

Table 2. Windows AIK Support in MDT

| Windows AIK | LTI | ZTI | UDI |
| --- | --- | --- | --- |
| Windows ADKNote   Support for the Windows ADK in ZTI and UDI requires System Center 2012 Configuration Manager with SP1 CTP. | ● | ● | ● |
| Windows AIK for Windows 7 | ● | ● | ● |
| Windows AIK Supplement for Windows 7 SP1 | ● | ● | ● |

● = supported

# Microsoft .NET Framework and Windows PowerShell Support

Table 3 lists the versions of the Microsoft .NET Framework and Windows PowerShell that are supported by MDT by Windows operating system version.

Table 3. .NET Framework and Windows PowerShell Support

| Windows version | .NET | PowerShell |
| --- | --- | --- |
| Windows 8 | 4.0 | 3.0 |
| Windows Server 2012 | 4.0 | 3.0 |
| Windows 7 | 3.5 with SP1 | 2.0 |
| Windows Server 2008 R2 | 3.5 with SP1 | 2.0 |
| Windows Vista | 3.5 with SP1 | 2.0 |
| Windows Server 2008 | 3.5 with SP1 | 2.0 |
| Windows XP | 3.5 with SP1 | 2.0 |
| Windows Server 2003 | 3.5 with SP1 | 2.0 |

When installing MDT on Windows Server 2008 or Windows Vista, install the hotfix that updates the ADO.NET data services for the Microsoft .NET Framework 3.5 with SP1, available in the Microsoft Support article, [Description of the ADO.NET Data Services Update for .NET Framework 3.5 SP1 for Windows Server 2003, Windows XP, Windows Vista and Windows Server 2008: May 7, 2010](http://support.microsoft.com/kb/982306).