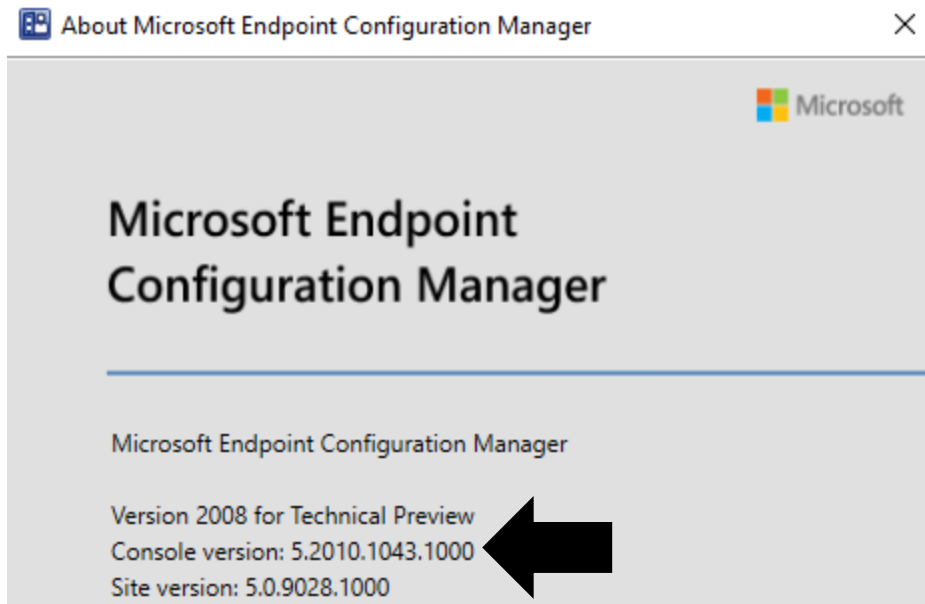


Installing Technical Preview 2009

In this post, I will show you how to install TP2009 and explore new features. I am currently running TP2008. Will upgrade to TP2009 within the console.



Below are the links to TP2009 documentation.

<https://docs.microsoft.com/en-us/mem/configmgr/core/get-started/2020/technical-preview-2009>

<https://techcommunity.microsoft.com/t5/configuration-manager-blog/remote-control-any-online-client-with-configuration-manager/ba-p/1666210>

Just clicked check for updates and it is downloading TP2009.

Updates and Servicing 2 items

Search

Name	Date Released	State	Prereq Only	Ignore Prereq Warning	Full Version	Client Version	Last Update Time
Configuration Manager Technical Preview 2009	11-Sep-2020 12:00 AM	Downloading	No	No	5.00.9030.1000	5.00.9030.1000	14-Sep-2020 6:12 PM

Install Update Pack Run prerequisite check Retry installation Ignore prerequisite warnings Promote Pre-production Client Report update error to Microsoft Download Download

iew Updates and Servicing

Updates and Servicing 2 items

Search

Name	Date Released	State	Prereq Only	Ignore Prereq Warning	Full Version	Client Version
Configuration Manager Technical Preview 2009	11-Sep-2020 12:00 AM	Ready to install	No	No	5.00.9030.1000	5.00.9030.1000



General

General

Features

Client Update Options

License Terms

Summary

Progress

Completion

Configuration Manager Technical Preview 2009

This wizard helps you configure and install this update.

[Learn more.](#)

This version includes:

Configuration Manager site server updates
Configuration Manager console updates
Configuration Manager client updates
Fixes for known issues
New features

Prerequisite warnings:

☒ Ignore any prerequisite check warnings and install this update regardless of missing requirements.

[Privacy Statement](#)

< Previous

Next >

Summary

Cancel



Features

General

Features

Client Update Options

License Terms

Summary

Progress

Completion

Features included in update pack

This update pack includes the following features. Select the features you want to enable now. Features you don't enable now can be enabled later from the Updates and Servicing node of the Configuration Manager console.

- ☒ Task Sequence Debugger
- ☒ Community hub
- ☒ Surface Driver Updates
- ☒ Windows Hello for Business
- ☒ Task Sequence as an app model deployment type install method
- ☒ Application Groups
- ☒ Azure Active Directory user group discovery
- ☒ PFX Create
- ☒ Approve application requests for users per device
- ☒ Create and run scripts

Description:

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Summary

Cancel



Client Update Options

General

Features

Client Update Options

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Progress

Completion

Client Update Settings

This update includes an update for the Configuration Manager client. You can upgrade your clients immediately, or validate this client in a pre-production collection before you upgrade all your Configuration Manager clients.

☒ Upgrade without validating

Overwrites your current Configuration Manager client package with the new client update. All new client installations and client upgrades use this new client update.

☐ Validate in pre-production collection

Validate the client update on members of the pre-production collection while you keep your production client package intact. Later, you can overwrite the production package using Client Update Options in the Updates and Servicing node of the Configuration Manager console.

Pre-production collection:

[Browse...](#)

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Summary

Cancel



License Terms

General

Features

Client Update Options

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Progress

Completion

Review and accept the terms for this update pack

You must accept the License Terms and Privacy Statement to continue installation.

[View the License Terms](#)[View the Privacy Statement](#)

☒ I accept these License Terms and Privacy Statement.

You can add or update your Software Assurance expiration date. This date must be after 01-Oct-2016.

Software Assurance expiration date:

[Learn more](#)

< Previous

Next >

Summary

Cancel



Summary

- General
- Features
- Client Update Options
- License Terms
- Summary**
- Progress
- Completion

Confirm the Settings

Details:

Summary of update package installation

Install Update Package Configuration Manager Technical Preview 2009
Prerequisite warnings will be ignored
Turn on the following features:
• Cloud management gateway with Azure VM scale set
Test new version of the client in production
Software Assurance expiration date is 2020-12-01.



To change these settings, click Previous. To apply the settings, click Next.

< Previous

Next >

Summary

Cancel



Completion

- General
- Features
- Client Update Options
- License Terms
- Summary
- Progress
- Completion**



The Configuration Manager Updates Wizard completed successfully

Details:

Summary of update package installation

✓ Success: Install Update Package Configuration Manager Technical Preview 2009
Prerequisite warnings will be ignored
Turn on the following features:
• Cloud management gateway with Azure VM scale set
Test new version of the client in production
Software Assurance expiration date is 2020-12-01.

To exit the wizard, click Close.

< Previous

Next >

Summary

Close

Updates and Servicing 2 items

Search							
Name	Date Released	State	Prereq Only	Ignore Prereq Warning	Full Version	Client Version	Last Update Time
Configuration Manager Technical Preview 2009	11-Sep-2020 12:00 AM	Installing	No	Yes	5.00.9030.1000	5.00.9030.1000	14-Sep-2020 6:36 PM

Configuration Manager



A new version of the console is available (5.2010.1060.1000). Click OK to close the console and install the new version now. Click Cancel to continue working with the old console (5.2010.1043.1000). Working in the old console might corrupt data.

OK

Cancel

Microsoft Endpoint Configuration Manager Console



Please wait while Windows configures Microsoft Endpoint Configuration Manager Console

Cancel

Microsoft Endpoint Configuration Manager 2009 Tech Preview

Welcome to update 2009 for Configuration Manager Technical Preview. Below you can find information about some of the new features and scenarios that are now available for you to try. You can also view which of the new scenarios you have completed for each feature. [Read more](#) about the latest changes in the Technical Preview build.

Please continue to give us feedback! To report any issues you encounter with the latest functionality included in this Technical Preview, use the [Microsoft Connect](#) website. To request a new feature or enhancement, use the [Configuration Manager UserVoice](#) site.

What's New in 2009

Progress: 2

Cloud management gateway with Azure VM scale set

Cloud management gateway deployments now use Azure virtual machine scale set, which introduces support for Azure Cloud Solution Provider subscriptions.



Scenarios:

- ☐ Deploy a new Cloud Management Gateway

Deploy an operating system over CMG using boot media

An admin can now reimage devices on the Internet over cloud management gateway using boot media.

Improved Windows Server device restart experience for non-administrator accounts

Administrators can now allow low-rights users to perform Configuration Manager initiated restarts for Windows Server.

Improvements to in-console notifications

You now have an updated look and feel for in-console notifications. Notifications are more readable and the action link is easier to find. Additionally, the age of the notification is displayed to help you find the latest information. If you dismiss a notification, that action is now persistent for a user across consoles.

Microsoft Endpoint Configuration Manager 2009 Tech Preview

Notifications for devices no longer receiving updates

To help you manage security risk in your environment, you will be notified in-console about devices with operating systems that are past the end of support date and that are no longer eligible to receive security updates.

Remote control anywhere using Cloud Management Gateway

An admin or helpdesk operator can now connect to a client via remote control over the Internet via cloud management gateway.

View Collection Relationships

You can now view dependency relationships between collections in a graphical format. Limiting, include, and exclude relationships are shown.

Wake machine at deployment deadline using peer clients on the same remote subnet

When you enable 'Send wake-up packets' on a deployment, the site will now identify another client that's awake on the same remote subnet. The awake client then sends a wake on LAN request (magic packet).



Scenarios:

- ☐ Enable "Allow network wake-up" in the power management client settings in the administration work space



About Microsoft Endpoint Configuration Manager



Microsoft Endpoint Configuration Manager

Microsoft Endpoint Configuration Manager

Version 2009 for Technical Preview

Console version: 5.2010.1060.1000

Site version: 5.0.9030.1000



These are the new features in this release. We will explore them in great detail.

Cloud management gateway with Azure VM scale set - Cloud management gateway deployments now use Azure virtual machine scale set, which introduces support for Azure Cloud Solution Provider subscriptions. I don't have CMG configured within home lab. As a result, I won't be able to provide additional screen shot. Here is a brief what needs to be done for the above.

- A new prerequisite is to register the following resource providers in your Azure subscription:

- Microsoft.KeyVault
- Microsoft.Storage
- Microsoft.Network
- Microsoft.Compute

For more information, see [Azure resource providers and types](#).

- When you create a CMG in the Configuration Manager console, the default option to deploy the cloud service is as a **Virtual machine scale set**. If necessary, you can still select **Cloud service (classic)** to use the existing Azure Resource Manager deployment.
- For a CMG deployment to a virtual machine scale set, the service name is different. This name is from the **CMG server authentication certificate**.
 - With the previous Azure Resource Manager deployment option, the service name is in the **cloudapp.net** domain. For example, **GraniteFalls.CloudApp.Net**.
 - With a virtual machine scale set, the service name uses the **cloudapp.azure.com** domain along with the region. For example, **GraniteFalls.EastUS.CloudApp.Azure.Com** for a deployment in the **East US** Azure region.
- The CMG connection point only communicates with the virtual machine scale set in Azure over HTTPS. It doesn't require TCP-TLS ports 10140-10155 to build the CMG communication channel.

If you already have an existing CMG deployment using Azure Resource Manager, you don't have to **redeploy the service**. This new deployment method is primarily to support CSP customers to use the CMG. If you do redeploy the service to leverage the new architecture, since the service name changes, you'll need to make configuration changes:

Deploy an operating system over CMG using boot media - An admin can now reimage devices on the Internet over cloud management gateway using boot media.

► Deploy an OS over CMG using boot media

Starting in current branch version 2006, the cloud management gateway (CMG) supports running a task sequence with a boot image when you start it from Software Center. With this release, you can now use boot media to reimage internet-based devices that connect through a CMG. This scenario helps you better support remote workers. If Windows won't start so that the user can access Software Center, you can now send them a USB drive to reinstall Windows.

Prerequisites for boot media via CMG

- **Set up a CMG**
- For all content referenced in the task sequence, distribute it to a content-enabled CMG or a cloud distribution point. For more information, see [Distribute content](#).
- Enable the following client settings in the **Cloud services** group:
 - **Allow access to cloud distribution point**
 - **Enable clients to use a cloud management gateway**
- When you **deploy the task sequence** to a collection, configure the following settings:
 - User experience page: **Allow task sequence to run for client on the internet**
 - Deployment settings page: Make available to an option that includes media.
 - Distribution points page, deployment options: **Download content locally when needed by the running task sequence**. For more information, see [Deployment options](#).
- Make sure the device has a constant internet connection while the task sequence runs. Windows PE doesn't support wireless networks, so the device needs a wired network connection.

Improved Windows Server device restart experience for non-administrator accounts - Administrators can now allow low-rights users to perform Configuration Manager initiated restarts for Windows Server.

Improved Windows Server restart experience for non-administrator accounts

For a low-rights user on a device that runs Windows Server, by default they aren't assigned the user rights to restart Windows. When you target a deployment to this device, this user can't manually restart. For example, they can't restart Windows to install software updates.

Starting in this release, you can now control this behavior as needed. In the **Computer Restart** group of client settings, enable the following setting: **When a deployment requires a restart, allow low-rights users to restart a device running Windows Server.**

Improvements to in-console notifications - You now have an updated look and feel for in-console notifications. Notifications are more readable and the action link is easier to find. Additionally, the age of the notification is displayed to help you find the latest information. If you dismiss a notification, that action is now persistent for a user across consoles.

Improvements to in-console notifications

You now have an updated look and feel for in-console notifications. Notifications are more readable and the action link is easier to find. Additionally, the age of the notification is displayed to help you find the latest information. If you dismiss or snooze a notification, that action is now persistent for your user across consoles.

Right-click or select ... on the notification to take one of the following actions:

- **Translate text:** Launches **Bing Translator** for the text.
- **Copy text:** Copies the notification text to the clipboard.
- **Snooze:** Snoozes the notification for the specified duration:
 - One hour
 - One day
 - One week
 - One month
- **Dismiss:** Dismisses the notification.

Notifications for devices no longer receiving updates - To help you manage security risk in your environment, you will be notified in-console about devices with operating systems that are past the end of support date and that are no longer eligible to receive security updates.

The screenshots show the 'Management Insights' section of the Microsoft Management Console (MMC) for 'Security'. The left pane shows the 'Administration' tree with 'Management Insights' selected. The right pane shows a table of rules with the following data:

Rule	Last Run Time	Progress
Unsupported antimalware client versions	14-Sep-2020 10:00...	Completed
Update clients running Windows 7 and Windows Server 2008	15-Sep-2020 12:51 AM	Completed

An orange arrow points to the 'Unsupported antimalware client versions' rule in both screenshots.

Remote control anywhere using Cloud Management Gateway - An admin or helpdesk operator can now connect to a client via remote control over the Internet via cloud management gateway.

Default Settings



Specify settings that apply to all clients in the hierarchy, and can be modified by custom settings.

Specify remote control settings on client computers.

Device Settings



Enable Remote Control on clients

Enabled

Configure Settings

Firewall exception profiles

Domain

Users can change policy or notification settings in Software Center

No

Allow Remote Control of an unattended computer

Yes

Prompt user for Remote Control permission

Yes

Prompt user for permission to transfer content from shared clipboard

No

Grant Remote Control permission to local Administrators group

Yes

Access level allowed

Full Control

Permitted viewers of Remote Control and Remote Assistance

1 Viewers

Set Viewers ...

Show session notification icon on taskbar

Yes

Show session connection bar

Yes

Play a sound on client

Beginning and end of session

Manage unsolicited Remote Assistance settings

No

Manage solicited Remote Assistance settings

No

OK

Cancel

Remote Tools

Software Center

Software Deployment

Software Inventory

Software Metering

Software Updates

State Messaging

User and Device Affinity

Windows Diagnostic Data

on taskbar

Show session connection bar

Yes

Play a sound on client

Beginning and end of session

Manage unsolicited Remote Assistance settings

No

Manage solicited Remote Assistance settings

No

Level of access for Remote Assistance

None

Manage Remote Desktop settings

No

Allow permitted viewers to connect by using Remote Desktop connection

No

Require network level authentication on computers that run Windows Vista operating system and later versions

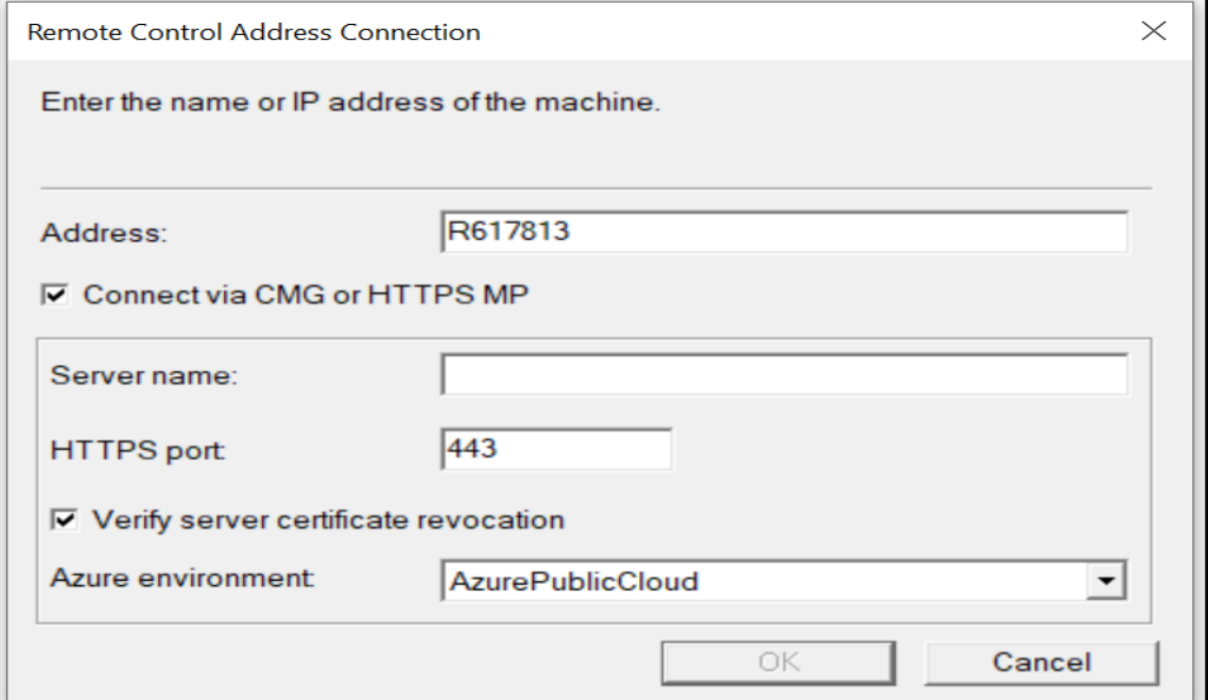
Yes

OK

Cancel

1. When you start a remote control session, select the option to **Connect via CMG or HTTPS MP** for any of the following scenarios:

- CMG
- HTTPS management point
- Enhanced HTTP site



Remote Control Address Connection

Enter the name or IP address of the machine.

Address:

☒ Connect via CMG or HTTPS MP

Server name:

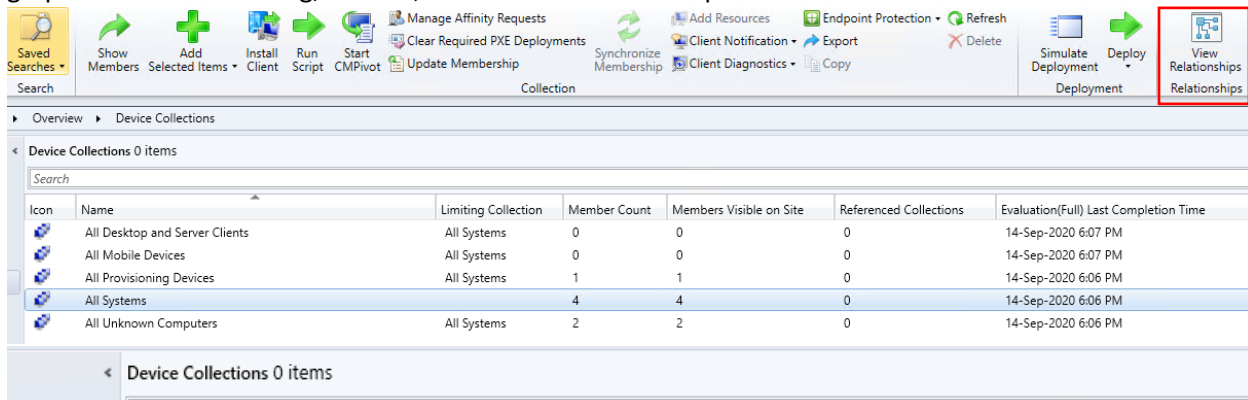
HTTPS port:

☒ Verify server certificate revocation

Azure environment:

OK Cancel

View Collection Relationships - You can now view dependency relationships between collections in a graphical format. Limiting, include, and exclude relationships are shown.



Top ribbon buttons: Saved Searches, Show Members, Add Selected Items, Install Client, Run Script, Start CMPIVOT, Manage Affinity Requests, Clear Required PXE Deployments, Update Membership, Synchronize Membership, Add Resources, Client Notification, Client Diagnostics, Endpoint Protection, Refresh, Delete, Simulate Deployment, Deploy, View Relationships (highlighted).

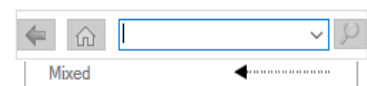
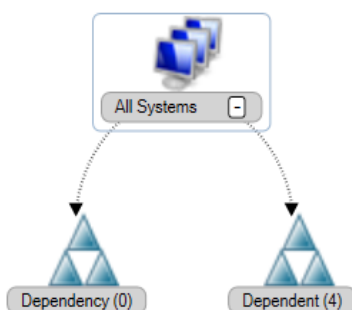
Overview > Device Collections

< Device Collections 0 items

Icon	Name	Limiting Collection	Member Count	Members Visible on Site	Referenced Collections	Evaluation(Full) Last Completion Time
	All Desktop and Server Clients	All Systems	0	0	0	14-Sep-2020 6:07 PM
	All Mobile Devices	All Systems	0	0	0	14-Sep-2020 6:07 PM
	All Provisioning Devices	All Systems	1	1	0	14-Sep-2020 6:06 PM
	All Systems		4	4	0	14-Sep-2020 6:06 PM
	All Unknown Computers	All Systems	2	2	0	14-Sep-2020 6:06 PM

< Device Collections 0 items

Viewing relationships for 'All Systems'



Navigation pane with a search bar and a dropdown menu showing 'Mixed'.

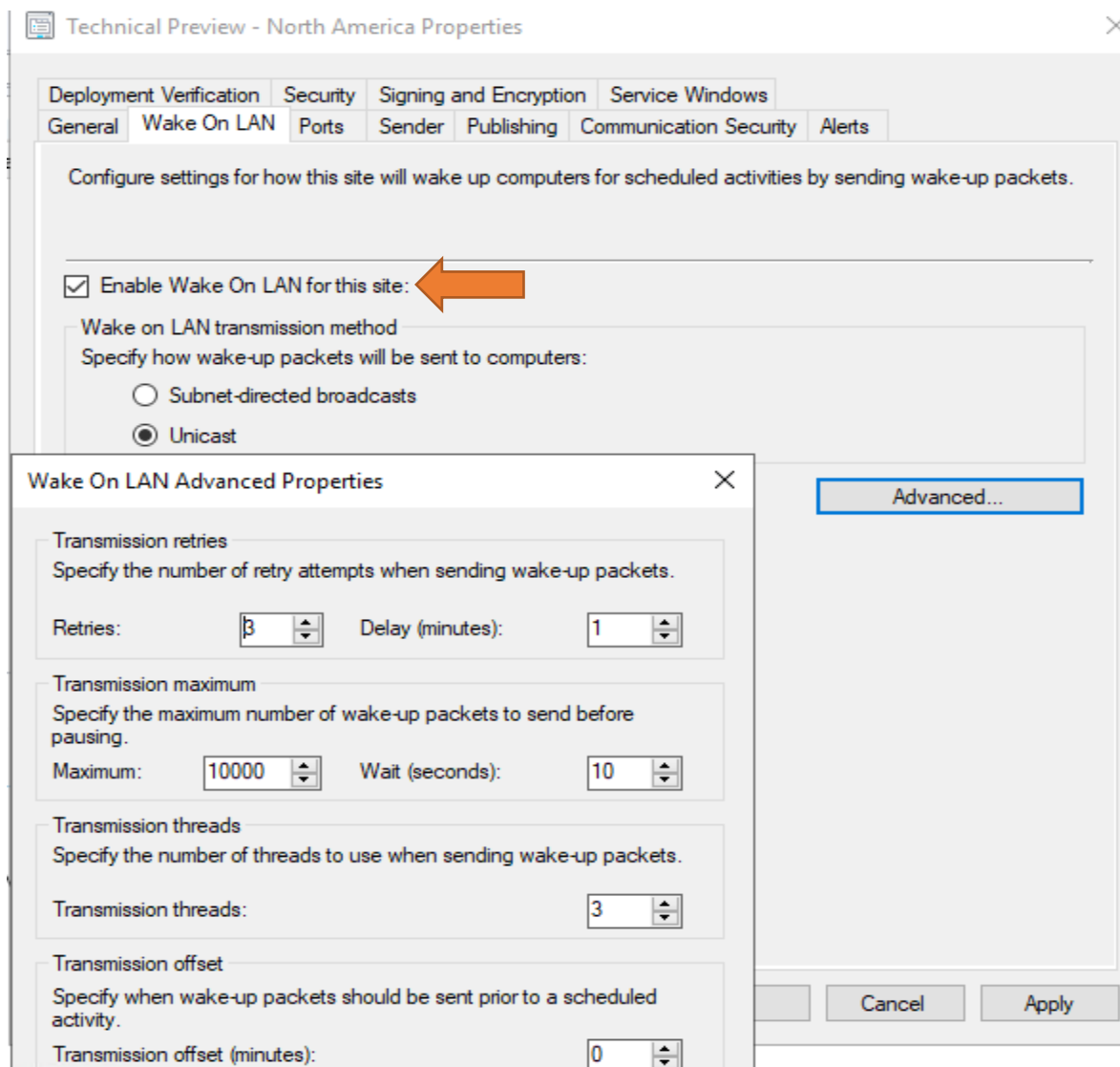
Wake machine at deployment deadline using peer clients on the same remote subnet - When you enable 'Send wake-up packets' on a deployment, the site will now identify another client that's awake on the same remote subnet. The awake client then sends a wake on LAN request (magic packet).

Wake machine at deployment deadline using peer clients on the same remote subnet

Wake on LAN (WoL) has always posed a problem in complex, subnetted networks. Good networking best practice reduces the size of broadcast domains to mitigate against the risk of broadcast traffic adversely affecting the network. The most common way to limiting network broadcast is by not allowing broadcast packets to be routed between subnets. Another option is to enable subnet directed broadcasts but most organizations don't allow the magic packet to traverse internal routers.

In version 1810, the introduction of **peer wake up** allowed an administrator to wake a device or collection of devices, on demand using the client notification channel. Overcoming the need for the server to be in the same broadcast domain as the client.

This latest improvement allows the Configuration Manager site to wake devices at the deadline of a deployment, using that same client notification channel. Instead of the site server issuing the magic packet directly, the site uses the client notification channel to find an online machine in the last known subnet of the target device(s) and instructs the online client to issue the WoL packet for the target device.



Default Settings



Specify settings that apply to all clients in the hierarchy, and can be modified by custom settings.

Specify power management settings for client computers.

Device Settings



Allow power management of devices

Yes

Allow users to exclude their device from power management

No

Allow network wake-up

Enable

Enable wake-up proxy

No

Wake-up proxy port number (UDP)

25536

Wake On LAN port number (UDP)

9

Windows Defender Firewall exception for wake-up proxy.

Disabled

Configure Settings

IPv6 prefixes if required for DirectAccess or other intervening network devices. Use a comma to specify multiple entries.

3. Deploy an application as **Required** with the **Send wake-up packages** option and a **Deadline**.

Deploy Software Wizard

Deployment Settings

General
Content
Deployment Settings
Scheduling
User Experience
Alerts
Summary
Progress
Completion

Specify settings to control how this software is deployed

Action: Install

Purpose: Required

☐ Allow end users to attempt to repair this application

☐ Pre-deploy software to the user's primary device

☒ Send wake-up packets

☐ Allow clients on a metered Internet connection to download content after the installation deadline, which might incur additional costs

This concludes all new features in TP2009.

Thanks

Ram Lan

14th Sep 2020