

What's new in System Center Configuration Manager Current Branch?

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Introduction

- IT engineer at METSYS, Paris
- 14 years experience
- Microsoft MVP Enterprise Mobility
- SCCM, SCOM, Intune, MDT



Agenda

- Infrastructure changes
- Windows 10 support
- Updates and Servicing
- New features

First things first

- Name is System Center Configuration Manager

Updates and Servicing

- new role – **Service connection point (ex-Microsoft Intune Connector)** is used for:
 - manage mobile devices with Microsoft Intune
 - manage mobile devices with on-premises MDM
 - submitting usage and diagnostic data from Configuration Manager*
 - downloading updates to Configuration Manager*
- online and offline modes
- **Service Connection Tool** for offline infrastructures
- can only be installed at the top-tier site of your hierarchy

* Microsoft Intune subscription is not required

Updates and Servicing

| Branch | Release date |
|--------|----------------|
| 1511 | December, 2015 |
| 1602 | March, 2016 |
| 1606 | July, 2016 |
| 1610 | November, 2016 |
| 1702 | March, 2017 |

Administration > Overview > Cloud Services > Updates and Servicing >

Updates and Servicing 5 items

Search X Search Add Criteria

| Name | Date Released | State | Prereq Only | Ignore Prereq Warning | Full Version | Client Version | Last Update Time | Description |
|---|---------------------|-------------|-------------|-----------------------|----------------|----------------|--------------------|--|
| Configuration Manager 1610 | 11/17/2016 12:00 AM | Installed | No | No | 5.00.8458.1000 | 5.00.8458.1000 | 11/29/2016 8:31 PM | If the update installation is suspended. |
| Configuration Manager 1610 Hotfix (KB3209501) | 12/7/2016 12:14 PM | Installed | No | Yes | 5.00.8458.1500 | 5.00.8458.1007 | 12/13/2016 7:28 PM | Fixes issues explained in KB3209501 |
| Configuration Manager 1610 Hotfix (KB3214042) | 12/19/2016 5:47 PM | Installed | No | Yes | 5.00.8458.1501 | | 1/16/2017 10:12 PM | Fixes issues explained in KB3214042 |
| Configuration Manager 1610 Hotfix (KB4010155) | 2/16/2017 11:15 PM | Installed | No | Yes | 5.00.8458.1520 | 5.00.8458.1520 | 2/27/2017 9:10 PM | Fixes issues explained in KB4010155 |
| Configuration Manager 1610 Hotfix (KB4016483) | 3/19/2017 10:26 PM | Downloading | No | No | 5.00.8458.1526 | | 3/26/2017 6:03 PM | Fixes issues explained in KB4016483 |

Site upgrade

Demo

Unsupported and deprecated

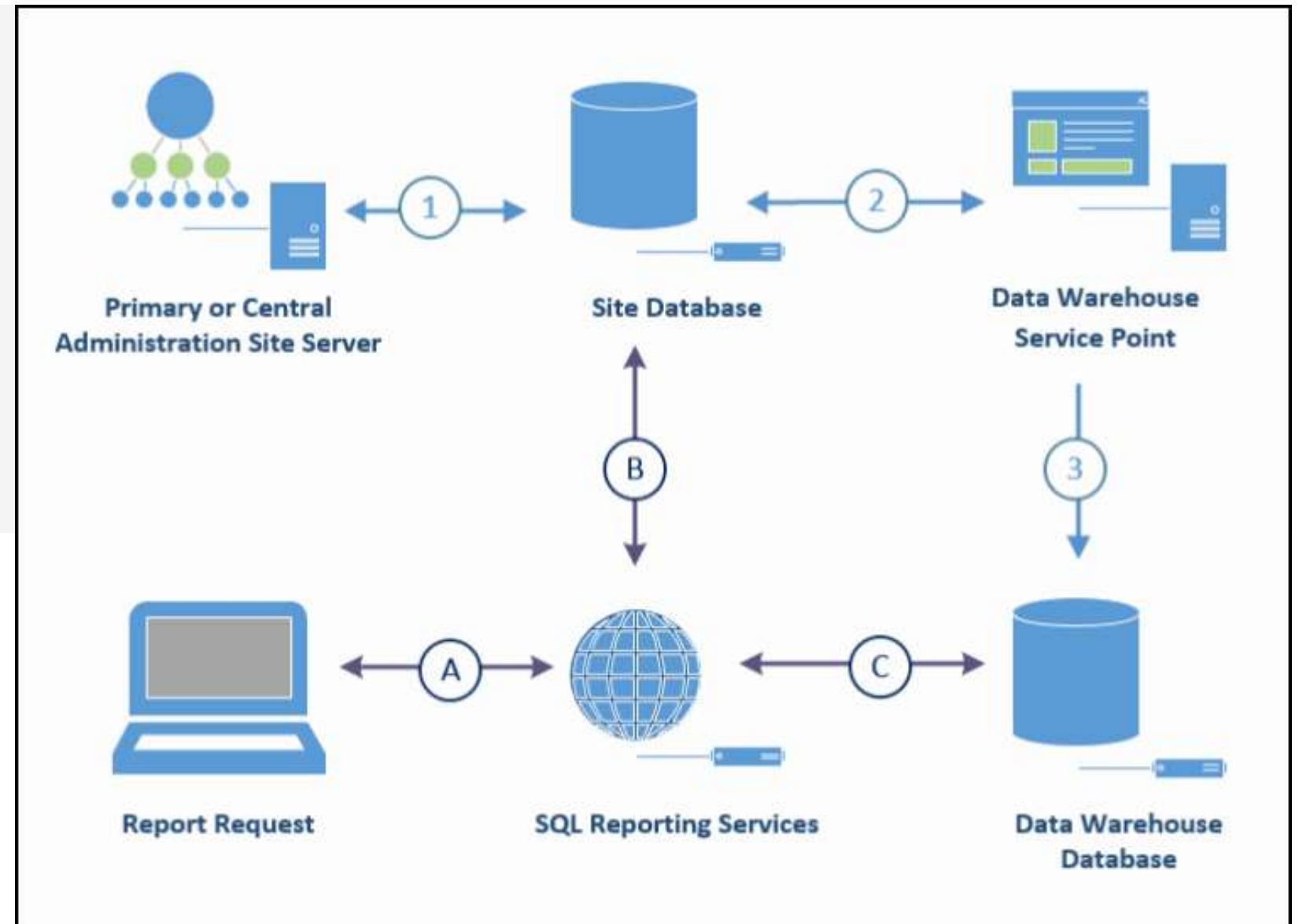
- OS:
 - Windows XP
 - Windows Vista
 - Windows Server 2003
 - Windows Server 2003 R2
 - Windows Server 2008
 - Windows Server 2008 R2
- SQL Server 2008 R2
- Features:
 - Network Access Protection
 - Out of Band Management

Infrastructure changes

- A hierarchy supports up to 700,000
- A single primary site supports up to 175,000 clients
- Migrate up to 50 shared distribution points at the same time
- Cloud management gateway for managing Internet-based clients
- Connector to the Microsoft Operations Management Suite

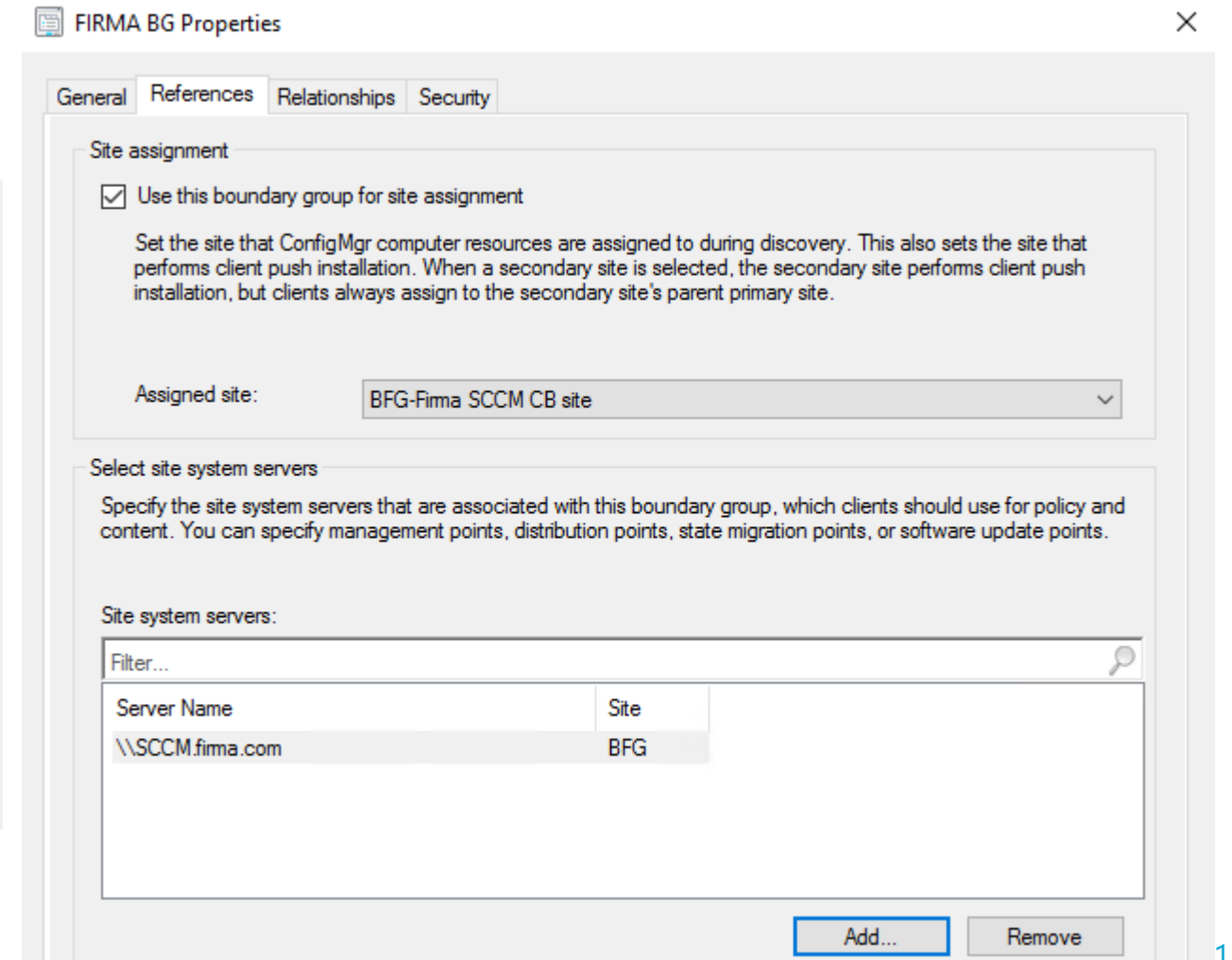
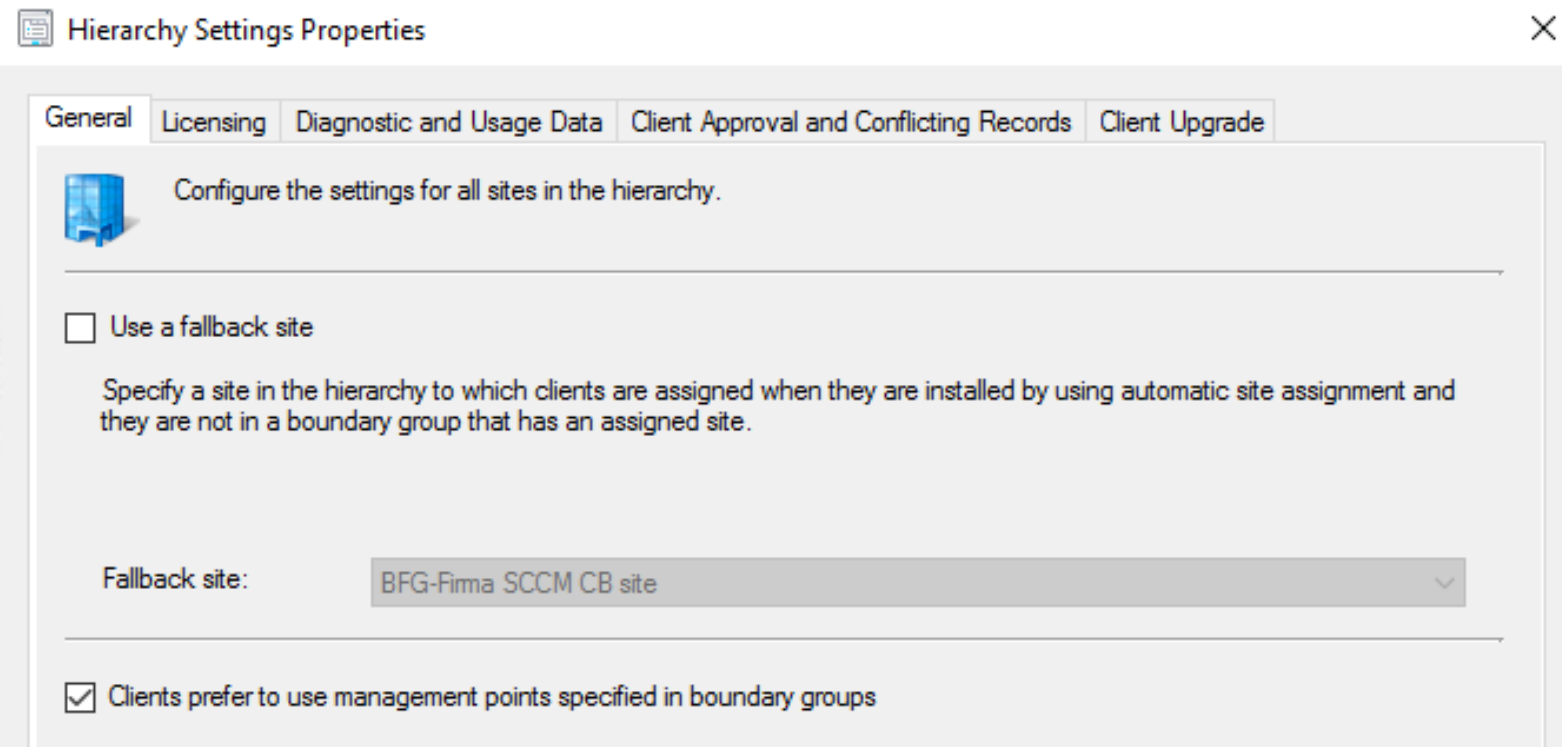
Infrastructure changes

- The Data Warehouse service point:
 - Infrastructure health
 - Security
 - Compliance
 - Malware
 - Software deployments
 - Inventory details



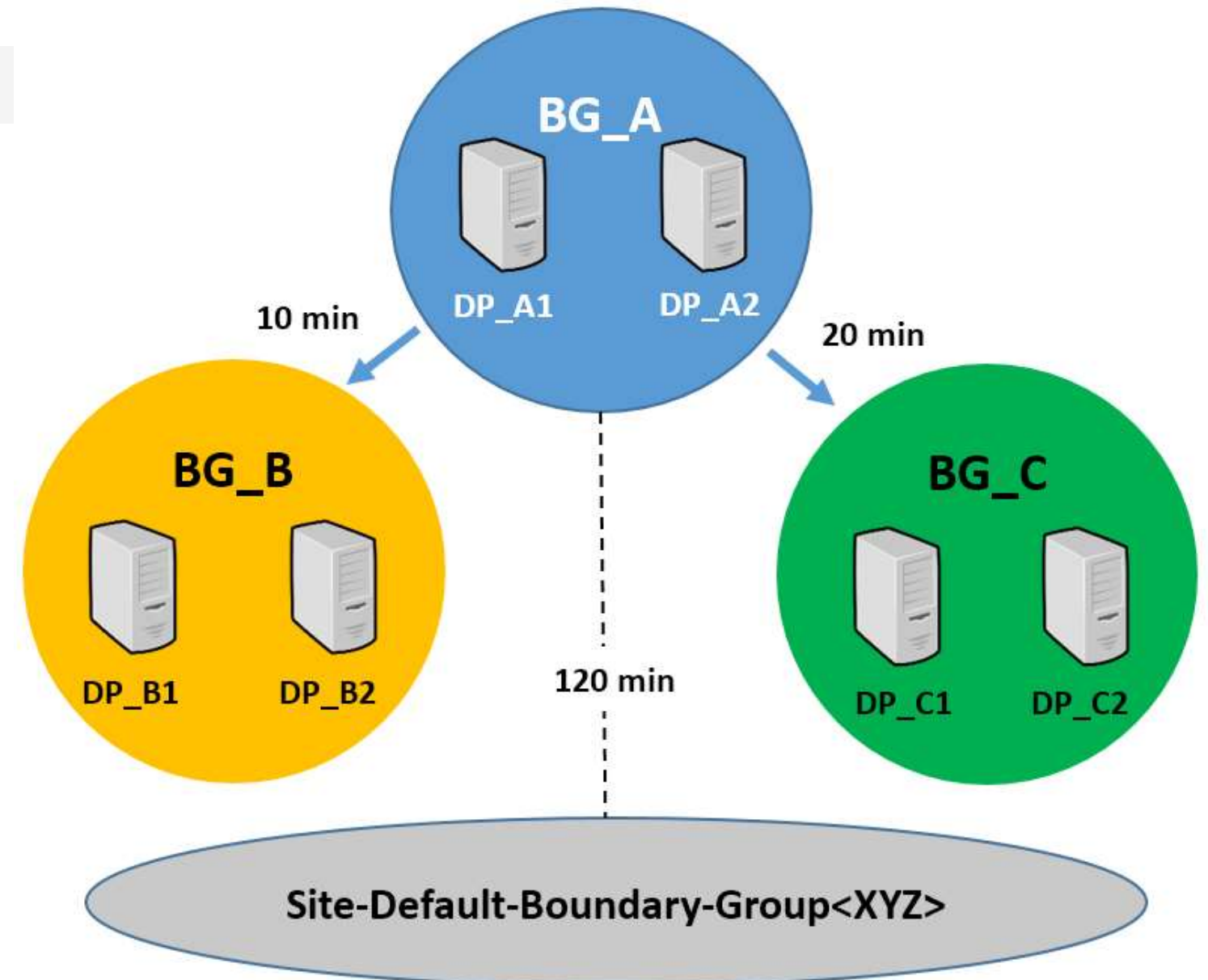
Infrastructure changes

- Preferred management point
- Software update points are added to boundary groups



Infrastructure changes

- Improvements for boundary groups



Infrastructure support

- In-place upgrade ConfigMgr CB 1602 Site Server from Windows 2008 R2 -> 2012 R2 -> 2016
- In-place upgrade ConfigMgr CB 1602 SQL Server 2008 R2 SP3 -> SQL Server 2016
- SQL Server AlwaysOn support:
 - You can move your site database to the default instance of an availability group
 - You can add or remove replica members from an availability group that hosts a site database
 - You can move your site database from an availability group to a default or named instance of a standalone SQL Server

Console improvements

- Built-in right click tools
- Object path

Software Library

Applications Sub Folders Search Results - 4 items shown

Visual C++

AND Path <Current Node + Subfolders>

| Icon | Name | Deployment Types | Deployments | Status | Object Path |
|------|---|------------------|-------------|--------|---------------------|
| | Microsoft Visual C++ 2010 x64 Redistributable - 10... | 1 | 1 | Active | /Windows/Visual C++ |
| | Microsoft Visual C++ 2012 Redistributable (x64) - 11... | 1 | 1 | Active | /Windows/Visual C++ |
| | Microsoft Visual C++ 2013 Redistributable (x64) - 12... | 1 | 1 | Active | /Windows/Visual C++ |
| | Microsoft Visual C++ 2015 Redistributable (x64) - 14... | 1 | 1 | Active | /Windows/Visual C++ |

| | | | | |
|--|---------------------|--------|--|--------------------------------------|
| | Client Notification | ▶ | | Download Computer Policy |
| | Endpoint Protection | ▶ | | Download User Policy |
| | Edit Primary Users | | | Collect Discovery Data |
| | Change Ownership | | | Collect Software Inventory |
| | Change Category | | | Collect Hardware Inventory |
| | Delete | Delete | | Evaluate Application Deployments |
| | Refresh | F5 | | Evaluate Software Update Deployments |
| | Properties | | | Switch to next Software Update Point |
| | | | | Evaluate Device Health Attestation |

Client management

- Client deployment status
- Client online status
- Client piloting to pre-production
- New client settings:
 - cache size
 - Office 365 Client Agent management
 - grace period for enforcement after deployment deadline (hours)

Client piloting to pre-production

Demo

Software updates

- Multiple deployments for automatic deployment rule
- Integration with Windows Update for Business in Windows 10
- WSUS cleanup task (manually)
- Manage Office 365 client updates
- Manually switch clients to a new software update point
- Restart options for Windows 10 clients after software update installation
- Run software updates compliance scan immediately after a client installs software updates and restarts
- Software updates dashboard
- Filter by content size in automatic deployment rules
- Deploy Office 365 apps to clients
- Manage Express installation files for Windows 10 updates

Software updates

Demo

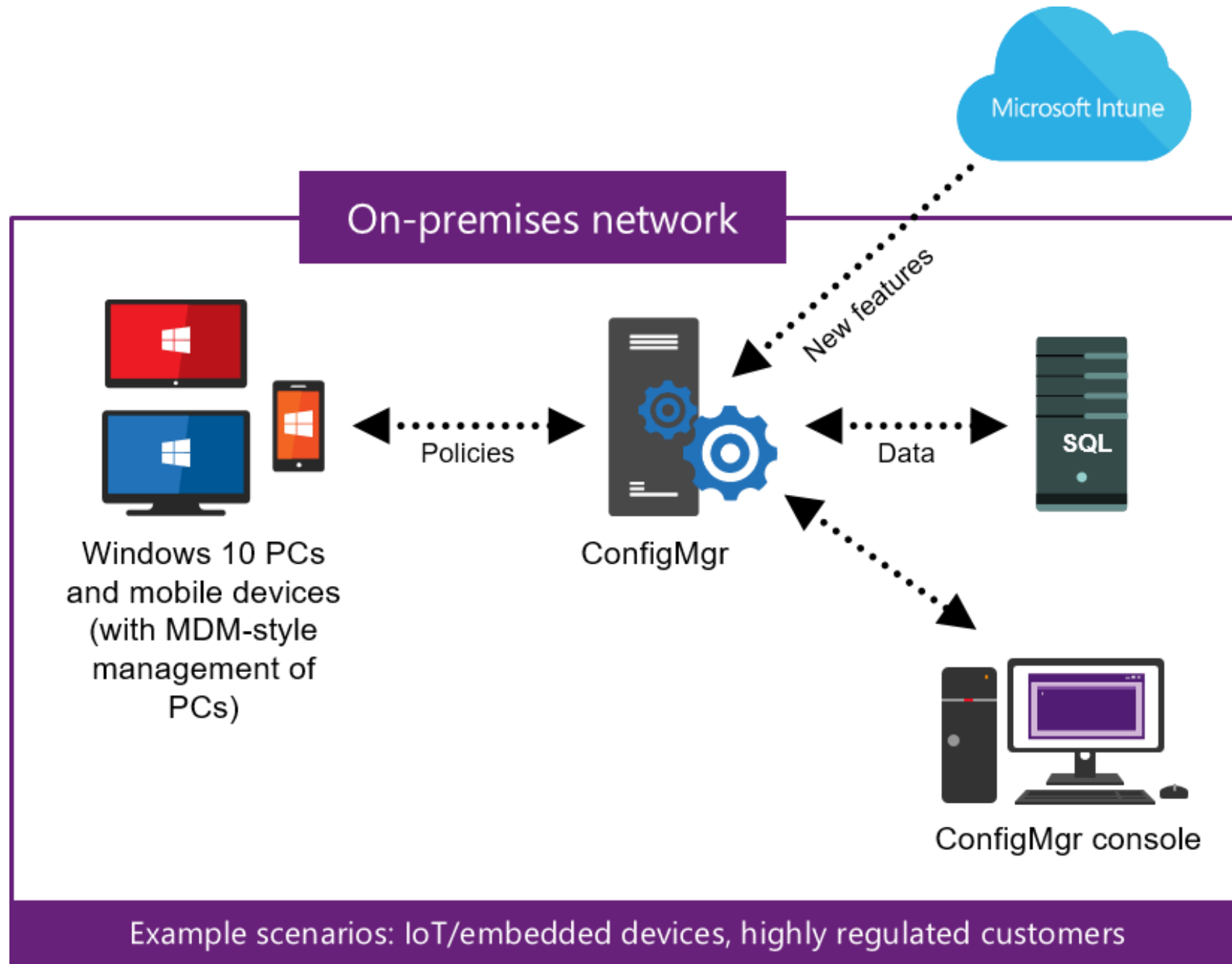
Compliance settings and data protection

- Support for Windows 10 and Mac OS X
- Improved workflow for creating mobile device configuration items
- Integration with Microsoft Passport for Work
- Compliance settings for devices running Windows 10 Team
- Kiosk mode settings for Android Samsung KNOX Standard devices
- New compliance settings for configuration items

Conditional access

- Restricting access based on the health of devices (Health Attestation Service)
- Conditional access for PCs managed by System Center Configuration Manager
- New compliance policy rules
- Make sure enrolled and compliant devices always have access to Exchange on-premises
- Smart Lock setting for Android devices

On-premises Mobile Device Management



On-premises Mobile Device Management

- You can manage devices that do not connect to the Internet or that are limited to accessing a few Internet resources
- Bulk enrollment of Windows 10 devices with on-premises MDM
- Requirements:
 - The Enrollment point
 - The Enrollment proxy point
 - Public Key Infrastructure
 - Distribution point
 - Microsoft Intune subscription
 - Management point that supports mobile devices

MDM and MAM

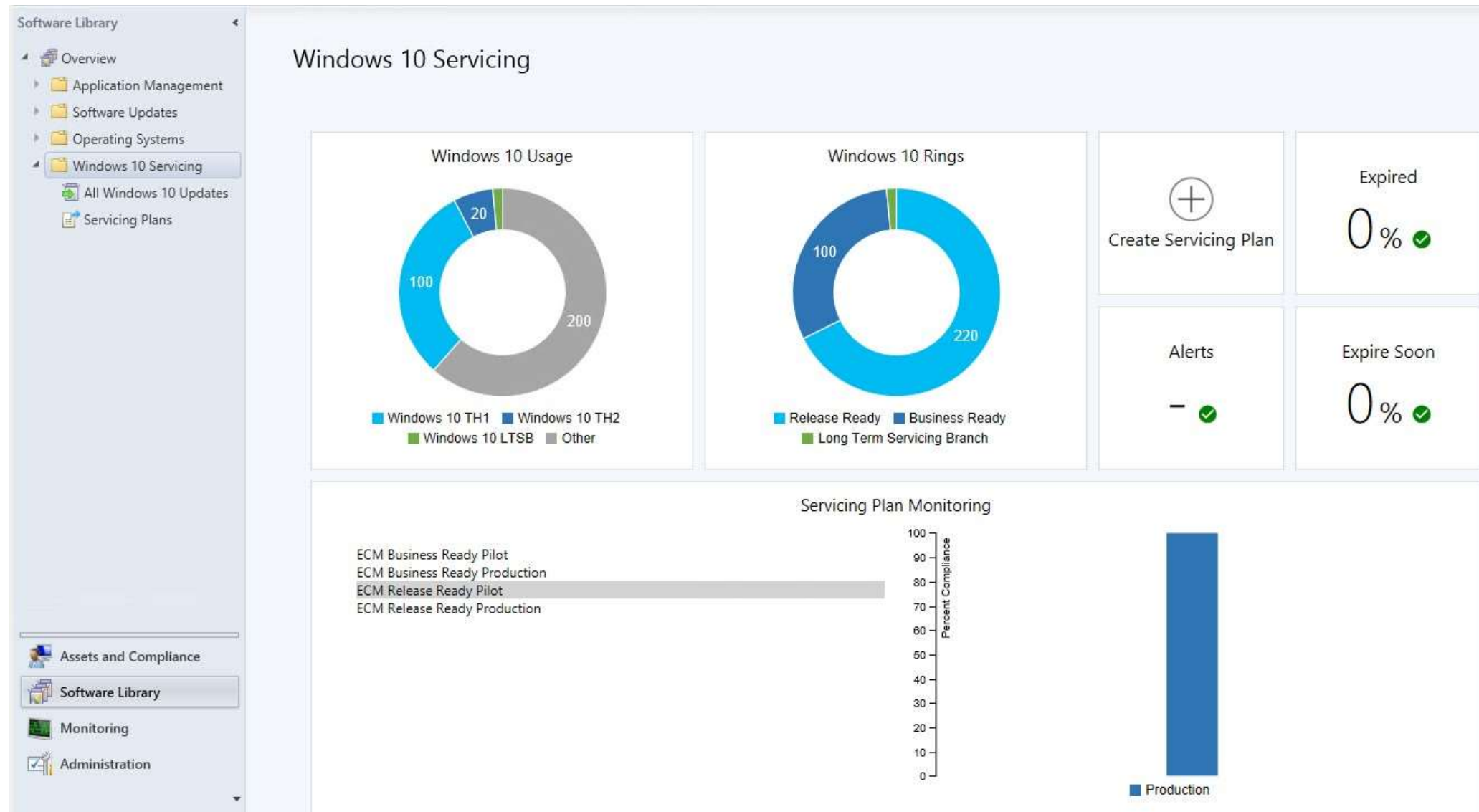
- iOS app configuration policies
- Manage volume-purchased iOS apps
- Automatic creation of Office mobile apps
- Device enrollment manager role
- Specifying and monitoring terms and conditions
- Placing a limit on the number of devices a user can enroll
- iOS Activation Lock
- Policy sync for Intune-enrolled devices
- Use compliance settings to configure Windows Defender settings on Intune-enrolled Windows 10 computers
- Conditional access device compliance policy improvements
- New Mobile Threat Defense monitoring tools

MDM and MAM

- Use compliance settings to configure Windows Defender settings on Intune-enrolled Windows 10 computers
- Android and iOS versions are no longer targetable in creation wizards for hybrid MDM
- Android for Work support
- Deploy volume-purchased iOS apps to device collections
- Support for iOS Volume Purchase Program for Education
- Support for multiple volume-purchase program tokens
- Support for line of business apps in Windows Store for Business
- Intune compliance policy charts
- Lookout integration for hybrid implementations to protect iOS and Android devices
- MAM policies support:
 - Devices that run Android 4 and later
 - Devices that run iOS 7 and later

Operating system deployment

- Windows 10 Servicing Rings, Plans and Dashboard



Windows 10 servicing

Demo

Operating system deployment

- Improvements to the task sequence steps:
 - **Install Software Updates** – a new setting **Evaluate software updates from cached scan results**
 - **Prepare ConfigMgr Client for Capture** completely remove the Configuration Manager client
 - a new **TSUEFIDrive** variable will prepare a FAT32 partition for transition to UEFI
 - **OSDPreserveDriveLetter** variable has been deprecated
- Improvements to the Windows 10 Edition Upgrade Policy
- Manage hardware identifiers
- Customize the RamDisk TFTP window size for PXE-enabled distribution points
- Windows 10 ADK tracked by build version
- Default boot image source path can no longer be changed
- Support for additional content in stand-alone media
- Customize the Task Sequence user notification
- Package ID displayed in task sequence steps
- Default boot images are regenerated after upgrading Configuration Manager to a new version

Operating system deployment

- Customize the RamDisk TFTP window size for PXE-enabled distribution points
- Expire stand-alone media
- Access content directly from the distribution point (Task Sequence Details tab)
- A new hardware inventory class **SMS_Firmware** for UEFI mode inventory
- Return to previous page when a task sequence fails
- Settings to manage high-risk deployments
- Pre-cache content for available deployments and task sequences based on the architecture and language values (pre-release feature)
- Convert from BIOS to UEFI during an in-place upgrade
- Increased the maximum number of applications that you can install to 99 in the **Install Applications** task sequence step
- Improvements to the Auto Apply Driver task sequence (new variables)
- Peer Cache for content distribution to clients
- **Download Package Content** task sequence step

OSD improvements

Demo

Operating system deployment

- Windows 10 in-place upgrade from Windows 7/8/8.1:
 - Upgrades the operating system
 - Retains the applications, settings, and user data on the computer
 - Has no external dependencies
 - Is faster and more resilient than traditional operating system deployments
 - Supplements existing deployment scenarios, which remain supported

Operating system deployment

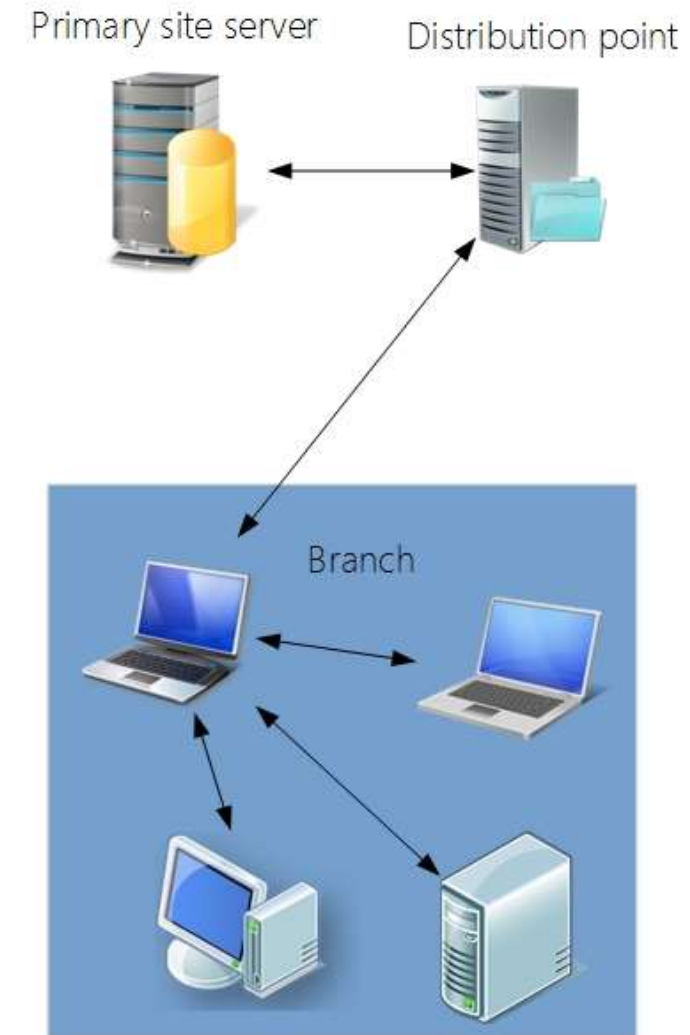
- **Windows 10 in-place upgrade is not supported** if you want to:
 - change the computers domain membership
 - update Local Administrators
 - partition disk
 - change from x86 to x64
 - implement UEFI
 - modify the base operating system language
 - use 3rd party disk encryption or 3rd party anti-virus
 - implement a custom base image
 - implement requirements in WinPE offline mode

Windows 10 in-place upgrade

Demo

Operating system deployment

- Windows PE Peer Cache task sequence starts from boot media and can get the following content objects using Windows PE:
 - Operating system (OS) image
 - Driver package
 - Packages and Programs
 - Additional boot images
- Configuring Windows PE Peer Cache:
 - Task Sequence variables
 - Client Settings
 - Task Sequence step



Software Center

- The new Software Center:
 - a new Sync Policy option
 - a new look
 - user-available apps appear under the **Application** tab
 - users can request apps
 - customizable branding for dialogs
 - improved functionality in dialog boxes about required software

Software Center

Demo

Application management

- Universal Windows Platform (UWP) apps for devices running Windows 10 and later
- The new Windows Installer through MDM application type
- Manage apps from the Windows Store for Business
- Manage iOS volume-purchased apps
- When you create an application for an in-house iOS app you only need to specify the installer (.ipa) file for the app
- All updates can be installed at once by clicking **Install All**
- Check for running executable files before installing an application

Application management

Demo

Device protection

- A new Endpoint Protection Manager role
- Improvements to antimalware settings
- Windows Defender Advanced Threat Protection
- Deployment of Windows Hello for Business (Passport for Work)
- Predeclare devices with IMEI or iOS serial numbers
- On-premises Health Attestation service communication
- New Mobile Threat Defense monitoring tools
- Device health attestation updates
- Certificate profiles for Windows Hello for Business
- New Windows Hello for Business notification for end users

Other

- Office 365 Client Management dashboard
- Pre-release features
- Allow your users the opportunity to accept or deny file transfers during remote control session
- The Content library cleanup tool

Microsoft Azure support

- **Scenario 1:** Configuration Manager in a Microsoft Azure and clients in a Microsoft Azure
- **Scenario 2:** Configuration Manager in a Microsoft Azure and on-premises clients
- **Scenario 3:** Configuration Manager site system roles in a Microsoft Azure

Resources

- **Microsoft Intune overview**

<https://www.microsoft.com/en-gb/server-cloud/products/microsoft-intune/overview.aspx>

- **Download Configuration Manager Current Branch for evaluation**

<https://www.microsoft.com/en-gb/evalcenter/evaluate-system-center-configuration-manager-and-endpoint-protection>

- **Microsoft Virtual Academy**

<https://mva.microsoft.com/>

- **Blog about Configuration Manager, MDT and Intune**

<http://liashov.com>

- **Youtube channel about Configuration Manager, MDT and Intune**

<https://goo.gl/B1imeZ>