

# Windows 10 Deployment from scratch

From an IT Admin view ...

Partner:  Microsoft *Computerworld*

**DIGICOMP**



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**About me ...**



# Agenda

- Win10 Insider Ring, CB, CBB & LTSB?
- Win10 wipe/lead vs. inplace upgrade?
- Universal Treiber?
- BIOS vs. UEFI (UEFI-Erfahrungen aus einem Projekt)?

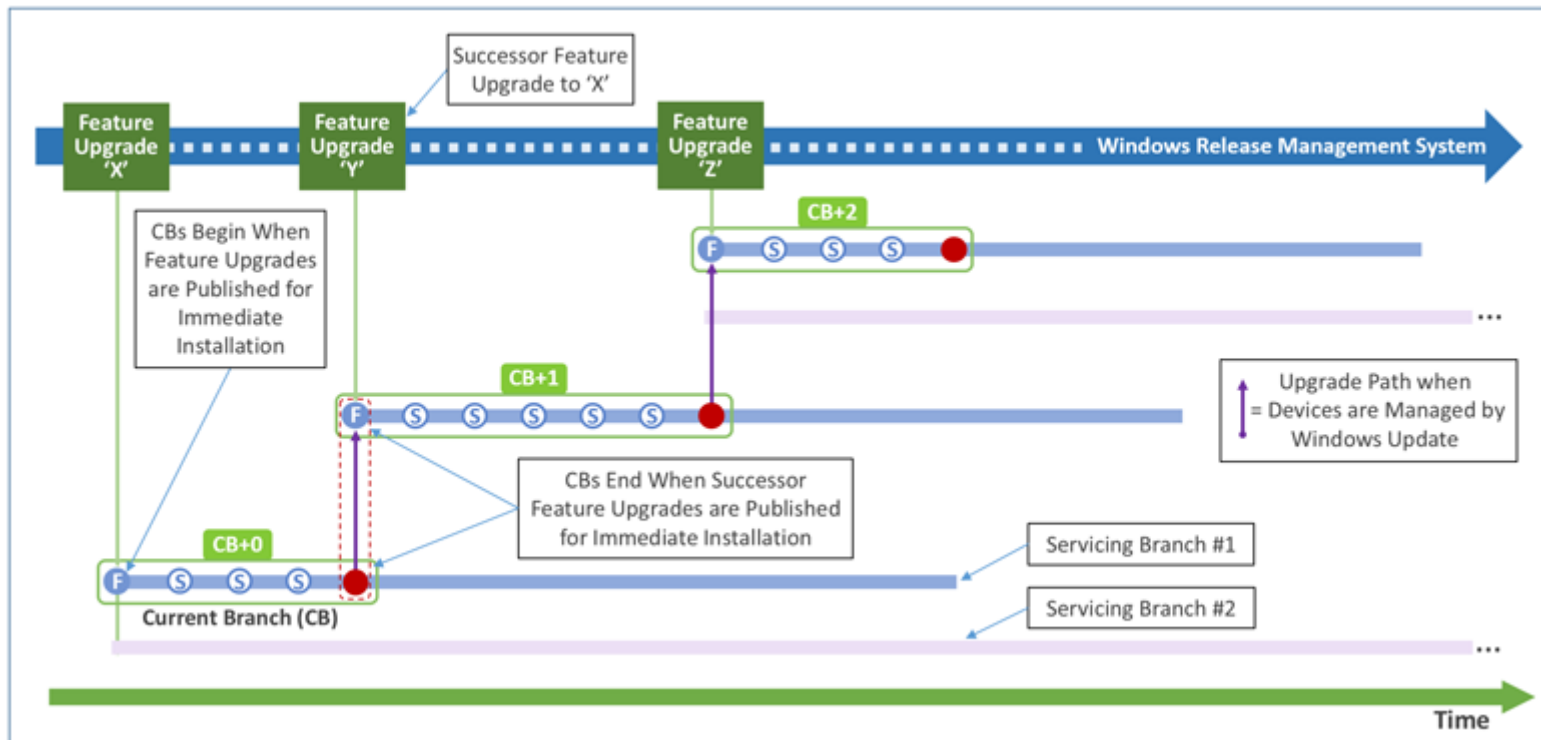
## Win10 Insider Ring, CB, CBB & LTSB?

- Windows as a Service (WaaS) and the «Branch» concept in Windows 10
- New model of rolling out steady, predictable updates, features and functionality to the Windows 10 OS
  - Windows Insider «branch»
  - Public «branch» – called the «Current Branch»
  - Current Branch for Business CBB
  - Long Term Servicing Branch LTSB
- <https://technet.microsoft.com/en-us/library/mt598226%28v=vs.85%29.aspx>
- <http://blogs.technet.com/b/askpfplat/archive/2015/10/19/making-a-little-more-sense-out-of-windows-as-a-service-and-windows-10-branches.aspx>

## ***Current Branch***

- The Current Branch (also known as CB) is the broadly deployed branch of Windows 10 aimed at consumers.
- Those new features and updates that make the cut for release are rolled out to this branch first.
- For critical security updates and fixes (also known as «Servicing Updates»), the timing of these releases will still be the familiar 2<sup>nd</sup> Tuesday of each month.
- For new feature hotness, (also known as «Feature Upgrades») the expected cadence is every few months but that may vary.
- The Current Branch has all the bells and whistles of the given version of Windows such as both IE and Edge browsers, Store apps, etc.

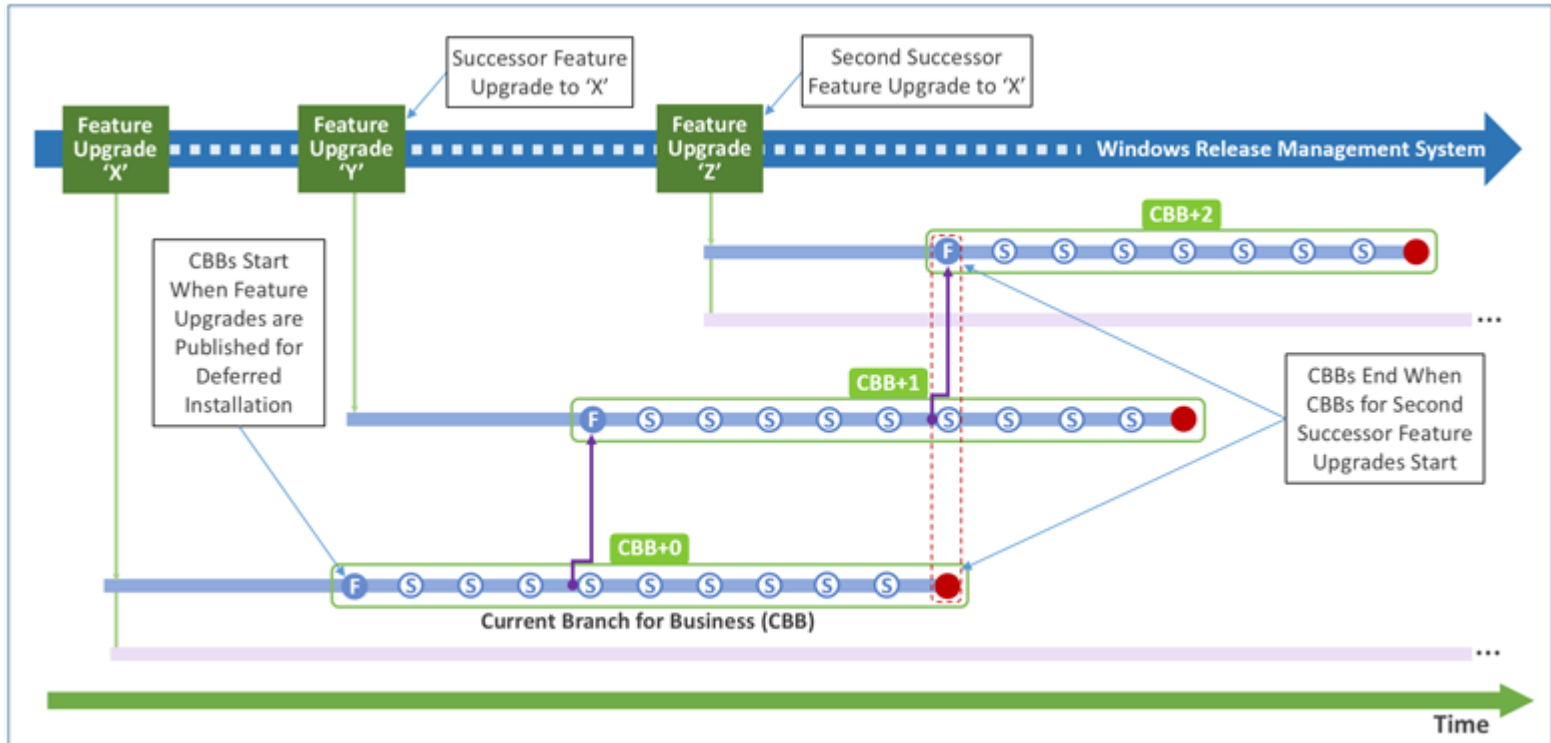
# Win10 Insider Ring, CB, CBB & LTSB?



## ***Current Branch for Business***

- Next up is the Current Branch for Business (also known as CBB). This is the same OS as the Current Branch but the Feature Upgrade cadence is aimed at – you guessed it – business users.
- The same critical security updates and fixes (also known as «Servicing Updates») released for CB are applicable to the CBB (which – as mentioned above – are released on the familiar 2<sup>nd</sup> Tuesday of each month).
- The new feature/functionality upgrades, though, will be deployed to CBB systems on a later schedule, months after Current Branch systems received them.
  - This can be from 4–12 months after they were released to the CB, depending on how they are deployed
    - Windows Update-connected CBB systems will defer the updates for 4 months
    - SCCM or other managed CBB systems can defer up to 12 months
- The Current Branch for Business has all the bells and whistles of the given version of Windows such as both IE and Edge browsers, Store apps, etc.

# Win10 Insider Ring, CB, CBB & LTSB?

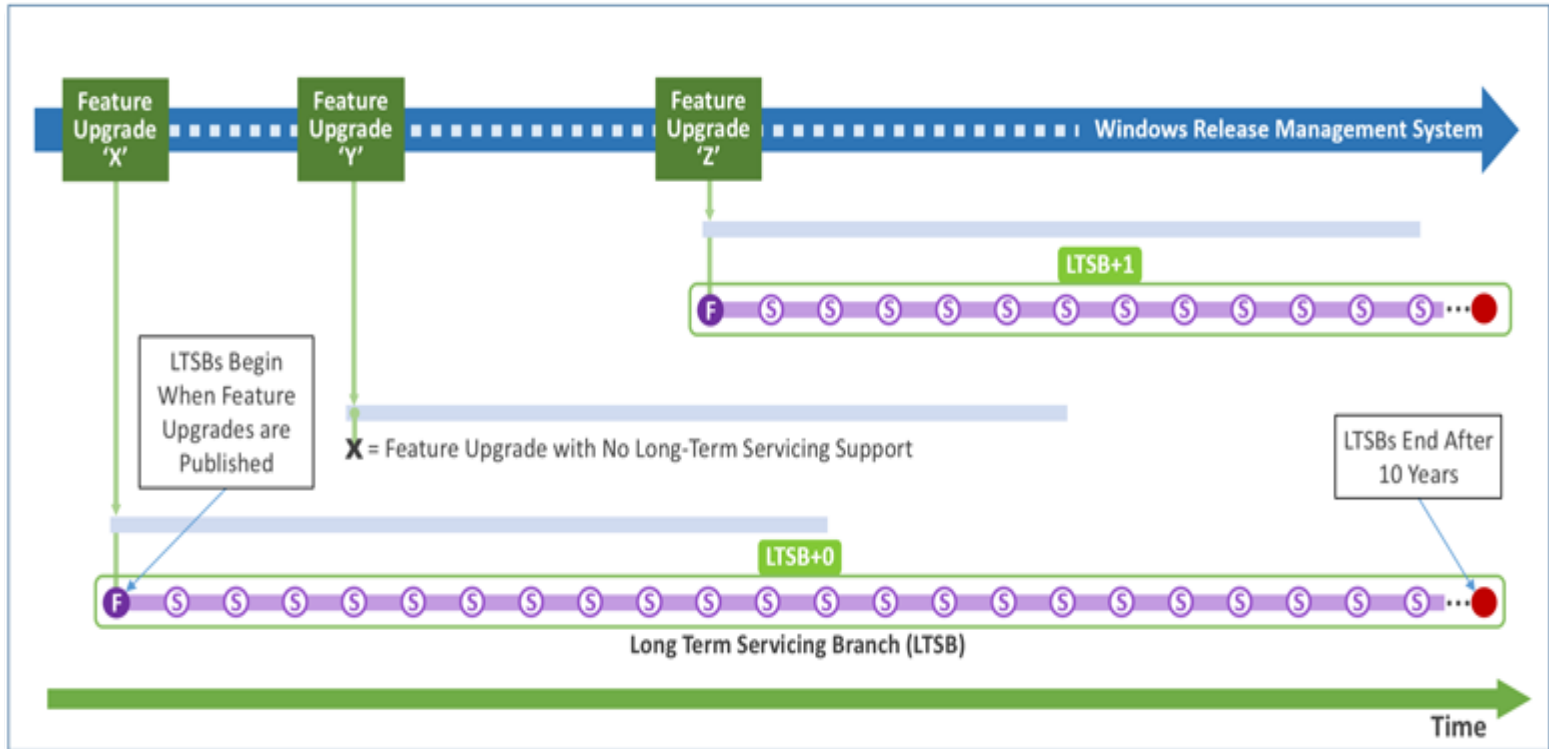




## ***Long Term Servicing Branch***

- The Long Term Servicing Branch version of Windows 10 (also known as the LTSB) is actually a different OS SKU than the CB/CBB and it is intended for mission-critical systems (i.e. cash registers, health care systems, air traffic control, etc.) where «set it and forget it» is a requirement.
- The critical security updates and fixes (also known as «Servicing Updates») which release on the familiar 2<sup>nd</sup> Tuesday of each month are applicable to the LTSB, just as they are to the CB and CBB.
- The new feature/functionality upgrades, though, will not be deployable to an LTSB OS until the next version of an LTSB is released (anywhere from 3–5+ years is the current expectation, which may vary).
- The LTSB version of Windows 10 does NOT have all the bells and whistles of the given version of Windows – it only has IE (no Edge); it doesn't have the Store apps/support; etc.

# Win10 Insider Ring, CB, CBB & LTSB?



# Win10 wipe/load vs. inplace upgrade?

- Demo

# Universal Treiber?

## ■ Windows Driver Model (WDM)

### ■ All WDM drivers must do the following:

- Include Wdm.h, not Ntddk.h. (Note that Wdm.h is a subset of Ntddk.h.)
- Be designed as a bus driver, a function driver, or a filter driver, as described in [Types of WDM Drivers](#).
- Create device objects as described in [WDM Device Objects and Device Stacks](#).
- Support [Plug and Play \(PnP\)](#).
- Support [power management](#).
- Support [Windows Management Instrumentation \(WMI\)](#).

## BIOS vs. UEFI (UEFI-Erfahrungen aus einem Projekt)?

- X86 UEFI Win10 Install.wim vs. OS upgrade Package
  - Is S:\EFI\Boot\bootx64.efi
  - Should S:\EFI\Boot\bootia32.efi
- Network adapter (ASIX AX88772B Chipset)
  - Show Stopper
- Work or School Access vs. AAD-Join
- After AAD-Join no longer work or school Access possible
  - Intune Integrated, Managed Business or School Devices
  - wosA MDM managed Devices with OMA-DM

# Questions



## Weiterführende Kurse

- [Kurs: Installing and Configuring Windows 10 \(«MOC 20697-1»\)](#)
- [Kurs: Deploying and Managing Windows 10 Using Enterprise Services \(«M20697-2»\)](#)
- [Lehrgang: Microsoft Specialist certification in Windows 10: Configuring Windows Devices \(«WIN10L»\)](#)
- [Kurs: Supporting and Troubleshooting Windows 10 \(«MOC 10982»\)](#)

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## Nächster CMCE R2SP1 Event 2.2.16 (Dienstag)

