

# Prinect Qualified DELL Systems



## System Specifications and Deployment

### Windows 10 / Server 2019

V22.05.05

K. Herzog / D. Bischoff

May 5, 2022

**For use by Heidelberg staff only!**  
**Do NOT leave the Deployment USB Stick or this document at a customer's site.**

**Contents**

- Version History .....3**
- Systems Overview .....4**
- 1. General information, hints, and news .....6**
- 2. Server Platforms .....7**
  - 2.1 Server T550-S45 (PP.222.0394) .....8
  - 2.2 Server R450-R45 (PP.222.0395) .....10
  - 2.3 Server T350-S20 (PP.222.0396) .....12
  - 2.4 Server R350-R20 (PP.222.0397) .....14
  - 2.5 Server T150-S12 (PP.222.0398) .....16
- 3. Wallscreen & PDFI Server Platforms .....18**
  - 3.1 Server T350-WT7 (PP.222.0399) .....18
  - 3.2 Server R350-WR7 (PP.222.0400) .....20
- 4. Workstation Platforms .....22**
  - 4.1 Workstation T3650-C10 (PP.222.0392) .....22
  - 4.2 Workstation XE3-C33 (PP.222.0296) .....24
- 5. Coming Workstation Platforms .....26**
  - 5.1 Workstation T3660-C11 (PP.222.0432) .....26
  - 5.2 Workstation XE4-C34 (PP.222.0431) .....28
- 6. Digital Printing Workflow Platforms .....30**
  - 6.1 Server R640-PR66 (PP.222.0401) .....30
  - 6.2 Server T640-PR67 (PP.222.0402) .....32
- 7. Coming Digital Printing Workflow Platforms .....34**
  - 7.1 Server R450-PR68 (PP.222.0430) .....34
  - 7.2 Server T550-PR69 (PP.222.0429) .....36
- 8. Assignment to Prinect Software .....38**
- 9. Suprasetter OS compatibility .....40**
- 10. Additional Components .....41**
  - 10.1 Storage NX3240 (PP.222.0284) .....41
  - 10.2 Storage NX440 (PP.222.0313) .....41
  - 10.3 Hardware Add-ons .....42
  - 10.4 Service Level Agreements .....42
  - 10.5 Monitors .....43
- 11. Deployment Wizard – Overview and Usage .....44**
  - 11.1 How to create the Prinect Deployment Wizard bootable USB flash drive .....44
  - 11.2 Prerequisites and Notes for the Deployment Wizard .....46
  - 11.3 Using the Deployment Wizard .....47

11.4	Post Deployment steps.....	54
11.5	System security hints and recommendations.....	65
11.6	Heidelberg post-deployment utilities.....	66
<b>12.</b>	<b>Prinect OS Deployment Wizard FAQ and Troubleshooting .....</b>	<b>69</b>
	Pre-Deployment questions.....	69
	Deployment boot issues.....	69
	Questions during deployment.....	71
	Post-deployment questions .....	72
	Known Windows Deployment Issues .....	74

## Version History

Version	as of	Changes, Remarks
V1.0	March 10, 2008	Initial version based on internal product list V6.0 as of March 3, 2008
[...]		
V18.11.05	November 5, 2018	Optiplex XE3 /w 8 <sup>th</sup> gen. Coffee Lake i3-8100 CPU replaces Optiplex 5050, Precision T3630 /w 8 <sup>th</sup> gen. i7-8700 CPU replaces T3620-C6. NAS NX3240 replaces NX3230. Monitor P2319H replaces P2317H. Documentation change only, <b>no image refresh!</b>
V19.04.10	April 1, 2019	New PowerEdge 14G Servers T640-S43, R640-R43, T340-S17, R340-R17, T140-S10, T340-WT4, R340-WR4; R940-PR82, R640-PR62, T640-PR63; Windows 10 v1809 for client systems.
V19.10.22	October 21, 2019	New PowerEdge 14G Servers T640-S44, R640-R44. New OS Windows Server 2019 and Windows 10 v1903 – not released due to lack of qualification resources.
V20.02.20	February 20, 2020	New PowerEdge 14G Servers T640-S44, R640-R44. R640-PR64, T640-PR65, T340-S18, R340-R18, T140-S11, T340-WR5, R340-WR5; new client T3630-C8. New OS Windows Server 2019 and Windows 10 v1909.
V20.09.01	September 01, 2020	New Precision T3640-C9 replaces T3630-C8. New OS Windows 10 v2004. Image refresh.
V21.02.02	February 02, 2021	New PowerEdge R940-PR84 replaces R940-PR83. Image refresh.
V21.07.07	July 07, 2021	New Precision T3650-C10 replaces T3640-C9. Image refresh. R940 removed from qualified system list.
V22.02.02	February 2, 2022	New PowerEdge 15G Servers T550-S45, R450-R45, T350-S20, R350-R20, T150-S12, T350-WT7, R350-WR7; Updated server R640-PR66, T640-PR67; Server now include Windows Server 2022 license. New deployed client OS Windows 10 v21H2.
V22.05.05	May 5, 2022	New workstations T3660-C11 and XE4-C34; new Labelfire servers T550-PR69 and R450-PR68. Image refresh (up to March 2022).

## Systems Overview

	Prinect Servers					Prinect Workstations			
	High-end		Mid-range		Entry-level	Future		Current	
	Server T550-S45	Server R450-R45	Server T350-S20	Server R350-R20	Server T150-S12	Workstation T3660-C11	Workstation XE4-C34	Workstation T3650-C10	Workstation XE3-C33
	Tower	Rack	Tower	Rack	Tower	Mini-Tower	SFF-Tower	Mini-Tower	SFF-Tower
<b>CPU</b>	1 x Intel® Xeon® Silver 4310, 12 C / 24 T, 2.1GHz, max. Turbo 3.3GHz, 18MB Cache, TDP 120W	1 x Intel® Xeon® Silver 4310, 12 C / 24 T, 2.1GHz, max. Turbo 3.3GHz, 18MB Cache, TDP 120W	Intel® Xeon® E-2334, 4C/8T, 3.6 GHz, 8MB Cache, max. Turbo 4.8 GHz, TDP 65W	Intel® Xeon® E-2334, 4C/8T, 3.6 GHz, 8MB Cache, max. Turbo 4.8 GHz, TDP 65W	Intel® Xeon® E-2334, 4C/8T, 3.6 GHz, 8MB Cache, max. Turbo 4.8 GHz, TDP 65W	Intel® Core™ i7-11700, 8C/16T, 2.5GHz, 16MB Cache, 4.9 GHz Turbo, UHD 750 Graph.	Intel® Core™ i3-8100, 4C/4T, 3.6GHz, 6MB Cache, UHD 630 Graph.	Intel® Core™ i7-11700, 8C/16T, 2.5GHz, 16MB Cache, 4.9 GHz Turbo, UHD 750 Graph.	Intel® Core™ i3-8100, 4C/4T, 3.6GHz, 6MB Cache, UHD 630 Graph.
<b>RAM</b>	64GB (4x16GB) DDR4 RDIMM ECC	64GB (4x16GB) DDR4 RDIMM ECC	64GB (4x16GB) DDR4 UDIMM ECC	64GB (4x16GB) DDR4 UDIMM ECC	32GB (2x16GB) DDR4 UDIMM ECC	32GB (2x16GB) DDR4 Non-ECC	16GB (2x8GB) DDR4 Non-ECC	32GB (2x16GB) DDR4 Non-ECC	16GB (2x8GB) DDR4 Non-ECC
<b>Disks</b>	2x 240GB BOSS, PERC H755 Front SAS, 4x 1.2TB 2.5' 10krpm SAS (optional add. disks)	2x 240GB BOSS, PERC H755 Front SAS, 4x 1.2TB 2.5' 10krpm SAS (optional add. disks)	PERC H755 Adapter 4x 600GB SAS 10krpm (optional add. disks)	PERC H755 Adapter 4x 600GB SAS 10krpm (optional add. disks)	3 x 1TB SATA 3.5' 6Gbps 7k2rpm HDD	1x 256GB M.2 class 40 SSD, 1x 1TB SATA3 HDD	1x 1TB M.2 Class 40 SSD	1x 256GB M.2 class 40 SSD, 1x 1TB SATA3 HDD	1x 1TB M.2 Class 40 SSD
<b>OS license</b>	Windows Server 2022 Std.	Windows Server 2022 Std.	Windows Server 2022 Std.	Windows Server 2022 Std.	Windows Server 2022 Std.	Windows 10 Pro x64	Windows 10 Pro x64	Windows 10 Pro x64	Windows 10 Pro x64
<b>Deployed OS</b>	Windows Server 2019 Std.	Windows Server 2019 Std.	Windows Server 2019 Std.	Windows Server 2019 Std.	Windows Server 2019 Std.	Windows 10 v21H2 Pro x64	Windows 10 v21H2 Pro x64	Windows 10 v21H2 Pro x64	Windows 10 v21H2 Pro x64
<b>Deployment USB Stick Version</b>	USB Deploy v22.05.05	USB Deploy v22.05.05	USB Deploy v22.05.05	USB Deploy v22.05.05	USB Deploy v22.05.05	USB Deploy v22.05.05	USB Deploy v22.05.05	USB Deploy v22.05.05	USB Deploy v22.05.05

Table 1: HEIDELBERG Qualified Dell Systems Overview

	PDFI / Wallscreen Servers		Future Digital Print Workflow Servers		Current Digital Print Workflow Servers	
	Server T350-WT7	Server R350-WR7	Server T550-PR69	Server R450-PR68	Server T640-PR67	Server R640-PR66
	Tower	Rack	Tower	Rack	Tower	Rack
<b>CPU</b>	Intel® Xeon® E-2334, 4C/8T, 3.6 GHz, 8MB Cache, max. Turbo 4.8 GHz, TDP 65W	Intel® Xeon® E-2334, 4C/8T, 3.6 GHz, 8MB Cache, max. Turbo 4.8 GHz, TDP 65W	1 x Intel® Xeon® Silver 4310, 12 C / 24 T, 2.1GHz, max. Turbo 3.3GHz, 18MB Cache, TDP 120W	1 x Intel® Xeon® Silver 4310, 12 C / 24 T, 2.1GHz, max. Turbo 3.3GHz, 18MB Cache, TDP 120W	2x Intel® Xeon® Gold 5220, 18C/36T, 2.2GHz, 24.75MB Cache, 10.4GT/s, 2 UPI, max. Turbo 3.9GHz, TDP 125W	2x Intel® Xeon® Gold 5220, 18C/36T, 2.2GHz, 24.75MB Cache, 10.4GT/s, 2 UPI, max. Turbo 3.9GHz, TDP 125W
<b>RAM</b>	32GB (2x16GB) DDR4 UDIMM ECC	32GB (2x16GB) DDR4 UDIMM ECC	128 GB (8x16GB) DDR4	128 GB (8x16GB) DDR4	128 GB (8x16GB) DDR4 2933MT/s	128 GB (8x16GB) DDR4 2933MT/s
<b>Disks</b>	PERC H345, 2 x 2TB SATA 3.5' 6Gbps 7k2rpm HDD (RAID 1)	PERC H345, 2 x 2TB SATA 3.5' 6Gbps 7k2rpm HDD (RAID 1)	2x 240GB BOSS NVMe, PERC H755 Front SAS, 5x 1.2TB 2.5' 10krpm SAS (optional add. disks)	2x 240GB BOSS NVMe, PERC H755 Front SAS, 5x 1.2TB 2.5' 10krpm SAS (optional add. disks)	2x 240GB BOSS NVMe (RAID1), PERC H750, 5x 1.2TB 2.5" SAS HDD (RAID5)	2x 240GB BOSS NVMe (RAID1), PERC H750, 5x 1.2TB 2.5" SAS HDD (RAID5)
<b>Network</b>	Onboard Broadcom dual port 1GbE Base-T LOM	Onboard Broadcom dual port 1GbE Base-T LOM	1x BC57416 2-port 10GbE (Network Daughter Card) 1x BC5720 Dual port 1GbE (NIC) Optional: BC57414 10GbE 2-port SFP+ NIC	2x BC57416 10GbE & 2x BC5720 1GbE (Network Daughter Card) Optional: BC57414 10GbE 2-port SFP+ NIC	1x BC57416 2-port 10GbE (Network Daughter Card) 1x BC5720 Dual port 1GbE (NIC) Optional: BC57414 10GbE 2-port SFP+ NIC	2x BC57416 10GbE & 2x BC5720 1GbE (Network Daughter Card) Optional: BC57414 10GbE 2-port SFP+ NIC
<b>OS license</b>	Windows Server 2022 Std.	Windows Server 2022 Std.	Windows Server 2022 Std.	Windows Server 2022 Std.	Windows Server 2022 Std.	Windows Server 2022 Std.
<b>Deployed OS</b>	Windows Server 2019 Std.	Windows Server 2019 Std.	Windows Server 2019 Std.	Windows Server 2019 Std.	Windows Server 2019 Std.	Windows Server 2019 Std.
<b>Deployment USB Stick Version</b>	USB Deploy v22.05.05	USB Deploy v22.05.05	USB Deploy v22.05.05	USB Deploy v22.05.05	USB Deploy v22.05.05	USB Deploy v22.05.05

Table 2: HEIDELBERG Qualified Dell Systems Overview (cont.)

## 1. General information, hints, and news

### Important news:

- Starting with the actual deployment version 22.02.02, the generic “**Heidelberg Service**” (**HDSERVICE**) user account will **not** be created any longer by the Prinect OS Deployment Wizard. This user account has been **discontinued** due to security reasons.
- Since deployment version 21.07.07, the [Windows password complexity](#) security policy has been enabled in all systems to enforce strong passwords.
- The Deployment Wizard now comes with “Intelligent System Recognition” to detect supported DELL systems.
- Some Dell-internal issues caused a delay in the availability of our new systems, that’s why this version of the Deployment Wizard must support two generations of workstations and digital printing workflow servers.

### Deployment requirements:

- The **USB stick** must be (bootable) **FAT32 formatted** (NTFS file system is not supported)
- The **USB stick** must be booted in **UEFI boot mode** (BIOS-booted USB stick will fail)
- The target system’s **EFI firmware** must be set to **UEFI boot mode**
- New HP USB Storage format Tool v2.2.3 can FAT32-format USB drives larger than 32GB.
- A USB flash drive with **at least 32 GB capacity** is required

### Client systems (Desktop & Workstation):

- Some actual UEFI firmware does not support legacy (aka BIOS) boot mode any longer.
- There **is no license sticker** on the system housing: The individual Windows key is pre-installed in the systems UEFI firmware if you ordered the system accordingly. The license key will be entered automatically during deployment, but the system **must be activated** afterwards (happens automatically if an internet connection is detected)
- Some systems come with a Windows 11 Pro x64 license (although Windows 10 is pre-installed)
- **The Windows 10 Dell “Recovery Media” cannot be used to do a disaster recovery** (aka fresh install). Please use Microsoft’s “Media Creation Tool” to create an installation medium or download the Dell installation medium if desired (see [this DELL link](#) for further information).
- Please note that **actual Intel® Core™ Processors** are only released for Windows 10 or later, **older Microsoft operating systems are not supported!**

### Server systems:

- Most qualified PowerEdge server systems belong to the new Dell PowerEdge 15G family, their server CPUs have been upgraded to the latest Intel Xeon CPU generation (3<sup>rd</sup> Generation Intel Xeon Scalable Processors resp. Intel Xeon E Processors).
- All servers are equipped with **iDRAC9 Enterprise** to allow extended remote service
- Most PowerEdge 15G **rack servers do not support optical drives** anymore; for your convenience, you will find an external USB DVD-ROM drive in the scope of delivery for these servers. Please be aware that this external drive will be dropped within the next server generation, please make sure that you are equipped with such an external USB drive for future installations (e.g., to ensure access to the OS media in case of a disaster recovery).
- **High-End Prinect systems** are equipped with BOSS 2x 240GB M.2 SSD RAID1 for OS partition and four 1.2 TB 2.5” 10krpm SAS HDDs for Data, optionally expandable up to in total 16 (tower version) resp. 8 (rack version) 1.2TB drives.
- **Mid-Range servers** are equipped with four 600GB 2.5” 10krpm SAS HDDs, optionally expandable up to in total eight drives.
- All servers qualified for **Prinect Production Manager** are equipped with **64GB RAM** now
- Most server and storage systems come with extended **39 months (3yrs + 3 months) Pro Support** as default support option to cover a possible delay between system delivery and system installation at the customer’s site.
- All servers are shipped and pre-installed with a **Windows Server 2022 Standard license** and 5 Windows Server 2022 User Client Access Licenses (CALs) now to ensure that our customers get the latest Microsoft server OS license with their order. Nevertheless, the Deployment uses the downgrade right to install Windows Server 2019 Standard.

### Hint:

- **All Dell systems** come with “**3 years Keep your hard drive**” option to avoid privacy issues caused by sending back hard drives with sensitive data in case of a warranty exchange

## 2. Server Platforms

All qualified PowerEdge server systems belong to the new Dell PowerEdge 15G family now, supporting the latest Intel CPUs, DDR4 RAM modules, PERC 11 family RAID controller, iDRAC9 Management cards and USB3. All servers are equipped with an iDRAC Enterprise license to allow extended remote service. Please note that rack servers are not equipped with an optical drive anymore.

### Server base models covering different requirements:

- **High-end servers:** DELL PowerEdge T550 Tower Server and its rack-mounted equivalent PowerEdge R450 for best performance, serviceability, and highest availability. Hot-pluggable fans, power supplies and hard disk drives are standard in these models. The servers are using Boot Optimized Server Storage (BOSS) M.2 SSDs for storing OS data and PERC H755 controllers for data drives. Recommended for integration products and other installations that need room for future expansions.
- **Mid-range servers:** DELL PowerEdge T350 Tower Server and its rack-mounted equivalent PowerEdge R350 for economic server solutions for installations without the need for future expansions.
- **Entry-level servers:** DELL PowerEdge T150 Tower Server for entry-level server solutions – **not** for Production Manager use! Note that this server does **not** offer any redundant power supplies or other redundancies like RAID controller etc.

All servers **released for Production Manager** are now equipped with **64GB** memory to be prepared for the Prinect software requirements. Please note that the T150 is not qualified as a Production Manager platform and remains on 32GB memory.


The standard server configurations as described below **do not include a monitor**. If required, a display can be selected separately from a monitor list within the “Global Standards” section in DELL’s Global Portal (see section Monitors).

### Operating System support:

All servers are currently shipped and pre-installed with a **Windows Server 2022 Standard license** that fits the CPU core count. As of today, Windows Server 2022 is not released yet for Prinect. That’s why this deployment version installs Windows Server 2019 Standard: Microsoft grants a downgrade right to an earlier version of Windows Server Standard, the according license key and installation media is part of delivery. **Windows Server 2019** has been released **for Prinect 2020 and later**.

All server operating systems are available as 64-bit version only. By using the Deployment Wizard as described in section “Deployment Wizard – Overview and Usage” the OS pre-installations will be changed according to the Prinect requirements.

### Online Recorder Connection:

- For operation of Prinect Renderer Online with Suprasettlers (except VLF = 145/162/190), one of the Servers T550-S45, T350-S20 or T150-S12 may be selected. Rack servers are not supported.
- **Online Recorder connections require the latest Suprasetter container software version** to support Windows Server 2019. Please check if your Container software is compatible with the OS before starting the installation! For required Suprasetter container software versions, please refer to Table 5: Minimum required Container software versions. 

### Network connections:

When you connect the server to the network it is recommended to use the first Ethernet network interface of the server. Please ensure that only one NIC is connected, do not connect any Suprasetter devices or other network interfaces yet.

### Rack infrastructure

[This document](#) provides mounting features and key dimensions of the rack rails used for mounting many Dell EMC enterprise systems and peripheral devices in a rack enclosure. [The Dell Enterprise Infrastructure Planning Tool \(EIPT\)](#) helps IT professionals plan and tune their computer and infrastructure equipment for maximum efficiency.

## 2.1 Server T550-S45 (PP.222.0394)

High-end server in a tower chassis (same performance as R450-R45).

Note:

### Specification:

DELL PowerEdge T550 Server Tower

- 1 x Intel® Xeon® Silver 4310, 12 cores / 24 threads, 2.1 GHz, Turbo max 3.3 GHz, 18 MB Cache, 2 UPI lanes, 120W TDP
- 64GB (4x 16GB) DDR4 RDIMMs
- TPM 2.0 module
- BOSS (Boot Optimized Server Storage) controller card with 2x 240GB M.2 (RAID1)
- PERC H755 SAS front RAID controller, RAID 5 (for internal data disks)
- 16x 2.5" hot swap disk bays
- 4x 1.2TB SAS 2.5" 10k hot-plug hard disks (RAID 5)
- Option: Additional 1.2TB SAS 2.5" 10k hot-plug hard disk(s)
- 2 PCIe 4.0 FHHL slots (4 slots for 2 CPU configuration)
- USB 3.0 support (one front, one rear USB3 Type A connector)
- Onboard Broadcom 5720 dual port 1GbE Base-T LOM
- Broadcom 57416 2-port 10GbE Base-T OCP NIC
- Option: Broadcom 57412 2-port 10GbE SFP+ NIC PCIe
- internal SATA DVD-ROM drive
- iDRAC9 Enterprise
- Keyboard and mouse
- Redundant hot-plug power supplies (1+1): 2x 600W, voltage auto ranging
- Licensed and pre-installed with Windows Server 2022 Standard English (2 Sockets / 16 cores) + 5 User-CALs
- Deployment: Windows Server 2019 LTSC Standard English (+ 10 add. Prinect Languages)
- ProSupport for IT (39 months), 24/7 Mission Critical 4 hours + "Keep your hard drive"



### Suprasetter online connection

Server T550-S45 is suited for the **PCIe Speedway Interface** (GIEB-2, GIEB PCI-E)



- For use with direct Suprasetter connection, the T550 should be extended with an extra 1.2TB buffer disk. The disk is available in the Global Portal configurator.
- The RAID 5 data space may also be enlarged if required.
- **Check your Suprasetter Container software version's OS compatibility**, please refer to Table 5: Minimum required Container software versions

### Network Interface Card options:

The PowerEdge T550 comes with two 1GbE onboard ports and two 10GbE ports on a OCP network interface card. To connect the PowerEdge T550 Server to a fiber-based 10GbE network environment, please order the Broadcom 57412 Dual Port 10GbE SFP+ NIC (see chapter Hardware Add-ons).

### Prinect product assignment:

This server is released for one of the following Prinect applications:

- Production Manager
- Fully Integrated Prinect System (**without** direct Suprasetter output)
  - with any combination of Prepress Manager incl. Renderer and/or integrated automatic Paper Stretch Compensation (output via Shooter), Pressroom Manager, Postpress Manager and Digital Print Manager
- Prepress Manager incl. Renderer
  - with Digital Print Manager
  - offline with output via Prinect Shooter
  - with Archiver Pro
  - with integrated automatic Paper Stretch Compensation and output via Shooter
  - online with direct output up to Suprasetter 106 (see "Suprasetter online connection")
- Portal Server

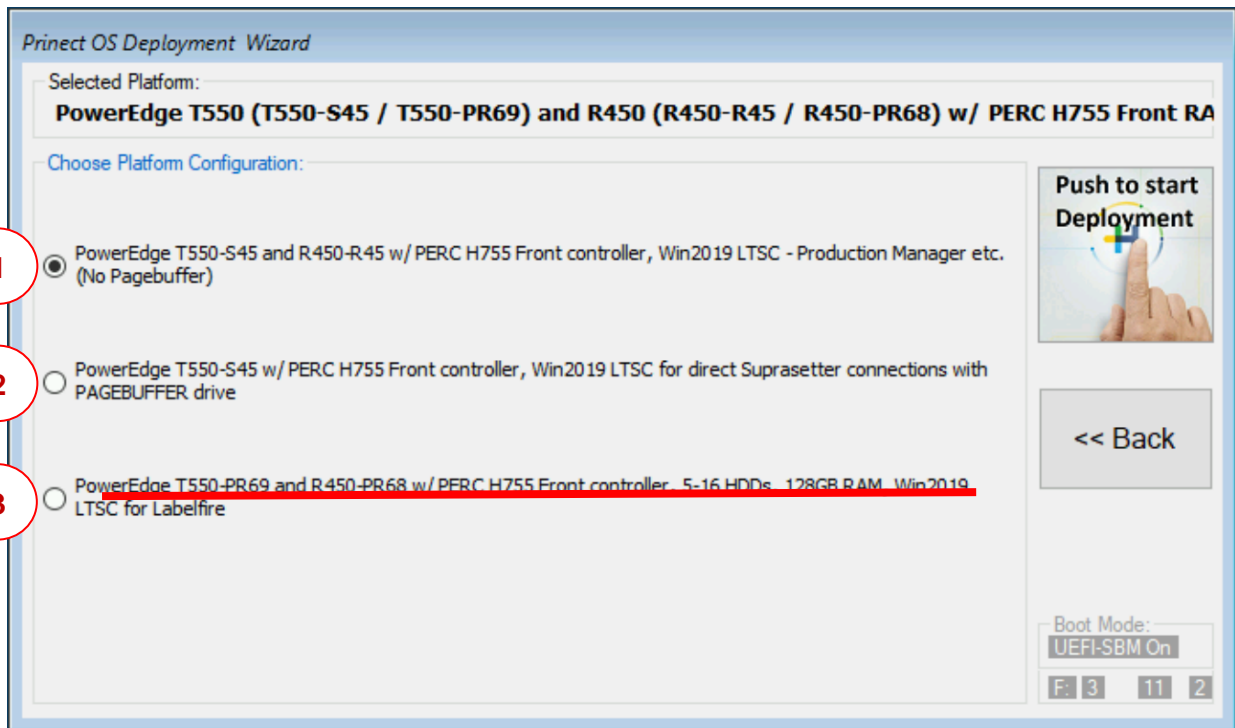
Server T550-S45 has been tested and qualified for Prinect in the configuration specified above. Only this minimum equipment guarantees sufficient Prinect functionality and allows conducting the automated deployment process described in section “Deployment Wizard – Overview and Usage”.

**The standard number of hard disks (4) must not be undercut when the server is ordered from Dell via the Global Portal.**



For use with direct Suprasetter connection, the T550 should be extended with an extra 1.2TB buffer disk in order to increase system performance. However, more than four hard disks are not critical. The deployment wizard will be cancelled if the software detects **less** than the required number of hard disks!

**Deployment configuration options:**



1.) Standard Prinect configuration for all Integration Manager and Database products except Prinect Business Manager and products with direct Suprasetter connection.

Hard drive configuration:

- o 4 up to 16 SAS drives installed:
- o 2 Virtual disks: RAID1 / RAID5 (4-16 SAS HDDs)
  - VD1: BOSS RAID1 (System drive)
  - VD2: PERC RAID5 128K stripe size, adaptive read ahead and write back cache (Data & Temp drive)
- o One Hot Spare if more than 8 SAS drives installed

2.) Prinect configuration for products with direct Suprasetter connection.

Hard drive configuration:

- o 4 up to 16 SAS drives installed:
- o 3 Virtual disks: RAID1 / RAID0 / RAID5 (3-15 SAS HDDs)
  - VD1: BOSS RAID1 (System drive)
  - VD2: PERC RAID0 256k stripe size, adaptive read ahead and write back cache (PAGEBUFF drive)
  - VD3: PERC RAID5 128K stripe size, adaptive read ahead and write back cache (Data & Temp drive)
- o One Hot Spare if more than 8 SAS drives installed

3.) N.a. (only for T550-PR69 and R450-PR68 systems)

## 2.2 Server R450-R45 (PP.222.0395)

High-end server in a 1U rack chassis (same performance as T550-S45).



### Specification:

DELL PowerEdge R450 1U Rack Server

- 1 x Intel® Xeon® Silver 4310, 12 cores / 24 threads, 2.1 GHz, Turbo max 3.3 GHz, 18 MB Cache, 2 UPI lanes, 120W TDP
- 64GB (4x 16GB) DDR4 RDIMMs
- TPM 2.0 module
- BOSS (Boot Optimized Server Storage) controller card with 2x 240GB M.2 (RAID1)
- PERC H755 SAS front RAID controller (for internal data disks)
- 8x 2.5" hot swap disk bays
- 4x 1.2TB SAS 2.5" 10k hot-plug hard disks (RAID 5)
- Option: Additional 1.2TB SAS 2.5" 10k hot-plug hard disk(s)
- 1 PCIe 4.0 16x low profile slot
- USB 3.0 support (1x front, 1x rear USB3 Type A connector)
- Onboard 2 Ports 1Gbit/s Base-T Ethernet LOM
- Broadcom 57416 2 Ports 10Gbit/s Base-T OPC NIC
- Option: Broadcom 57412 2-port 10GbE SFP+ NIC PCIe (low profile)
- No internal optical drive
- iDRAC9 Enterprise
- ReadyRails™ Sliding Rails with Cable Management Arm
- Rack bezel
- Keyboard and mouse
- Redundant hot-plug power supplies (1+1): 2x 800W, voltage auto ranging
- Licensed and pre-installed with Windows Server 2022 Standard English (2 Sockets / 16 cores) + 5 User-CALs
- Deployment: Windows Server 2019 LTSC Standard English (+ 10 add. Prinect Languages)
- ProSupport for IT (39 months), 24/7 Mission Critical 4 hours + "Keep your hard drive"

### Network Interface Card options:

The PowerEdge R450 comes with two onboard 1GbE LOM ports (Broadcom 5720) and an OPC NIC that is equipped with two 10GbE ports (Broadcom 57416). To connect the PowerEdge Server to a fiber-based 10Gb network environment, order the optional Broadcom 57414 2-port 10GbE SFP+ network interface card (see chapter Hardware Add-ons).

### Prinect product assignment:

This server is released for one of the following Prinect applications

- Production Manager
- Fully Integrated Prinect System
  - with any combination of Prepress Manager incl. Renderer and/or integrated automatic Paper Stretch Compensation (output via Shooter), Pressroom Manager, Postpress Manager and Digital Print Manager
- Prepress Manager incl. Renderer
  - with Digital Print Manager
  - offline with output via Prinect Shooter
  - with Archiver Pro
  - with integrated automatic Paper Stretch Compensation and output via Shooter
- Portal Server

### Note:

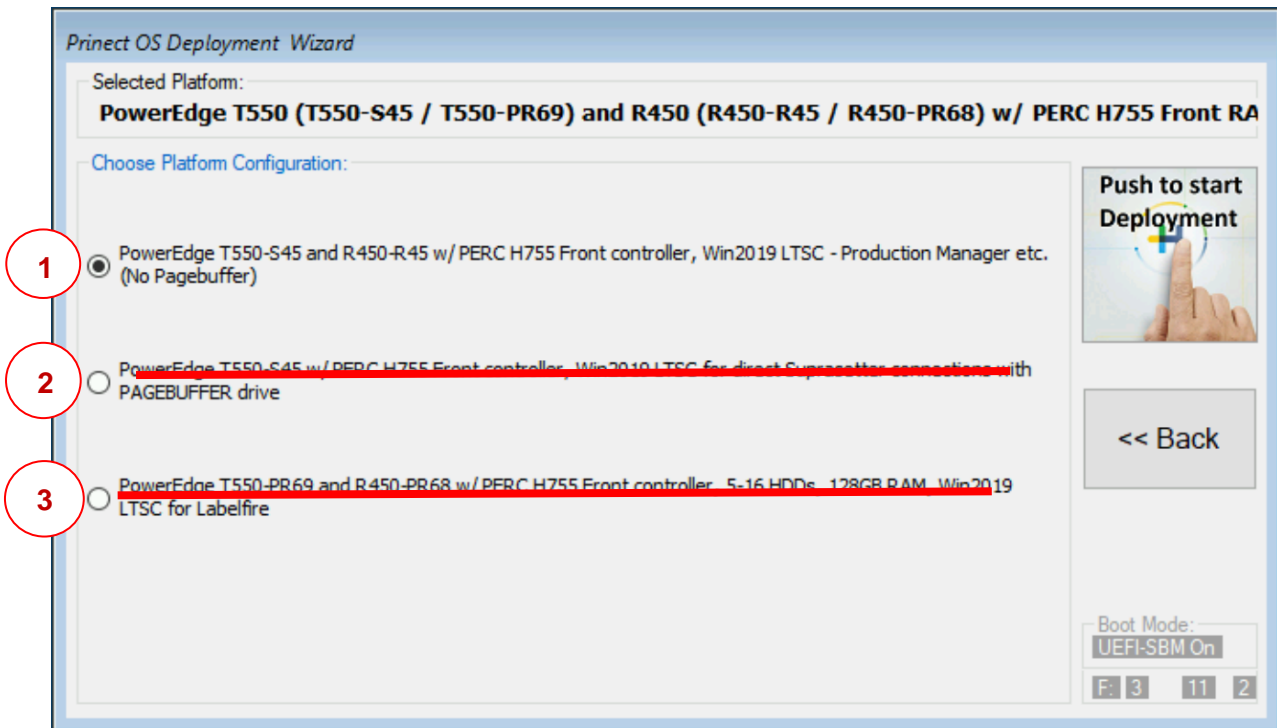
Server R450-R45 has been tested and qualified for Prinect in the configuration specified above. Only this minimum equipment guarantees sufficient Prinect functionality and allows conducting the automated deployment process described in section "Deployment Wizard – Overview and Usage".

**The deployment wizard will be cancelled if the software detects less than the required number of hard disks! The standard number of hard disks (4) must not be undercut when the server is ordered from Dell via the Global Portal.**

However, more than four 1.2TB hard disks are not critical.



Deployment configuration options:



- 1.) Standard Prinect configuration for all Integration Manager and Database products except Prinect Business Manager and products with direct Suprasetter connection.  
Hard drive configuration:
  - 4 up to 8 SAS drives installed:
  - 2 Virtual disks: RAID1 / RAID5 (4-8 SAS HDDs)
    - VD1: BOSS RAID1 (System drive)
    - VD2: PERC RAID5 128K stripe size, adaptive read ahead and write back cache (Data & Temp drive)
  - One Hot Spare if more than 6 SAS drives installed
- 2.) n.a.: R450-R45 is not released for Speedway PCIe Interface
- 3.) N.a. (only for T550-PR69 and R450-PR68)

Please note that a direct Suprasetter connection is not released for the server R450-R45!

## 2.3 Server T350-S20 (PP.222.0396)

Multi-purpose server mainly recommended as economic server solution.

### Specification:

DELL PowerEdge T350 Server Tower

- Intel® Xeon® E-2334, 3.4GHz, max. Turbo 4.8GHz, 4 cores /8 threads, 8M Cache, 65W TDP
- 64GB (4x 16GB) DDR4 ECC UDIMMs
- TPM 2.0 module
- PERC H755 RAID controller (for internal disks)
- 8x 3.5" hot swap disk bays
- 4x 600GB SAS 2.5" 12Gbps 10k hot-plug hard disks in 3.5 carrier
- Optional: Additional 600GB SAS 2.5" 6Gbps 10k hot-plug hard disk(s) in 3.5 carrier (max. 8 disk drives in total)
- Onboard dual port 1GbE Base-T LOM
- 2x PCIe 4.0 + 2x PCIe 3.0 slots
- USB 3 support (1x front, 1x rear USB Type A connector)
- internal SATA DVD-ROM drive
- Keyboard and mouse
- Dual, redundant hot-plug power supply (1+1), 600W
- iDRAC9 Enterprise
- Licensed and pre-installed with Windows Server 2022 Standard English (2 Sockets / 16 cores) + 5 User-CALs
- Deployment: Windows Server 2019 LTSC Standard English (+ 10 add. Prinect Languages)
- ProSupport for IT (39 months), 24/7 Mission Critical 4 hours + "Keep your hard drive"



The server T350-S20 is suited for the **PCIe Speedway Interface** (GIEB-2, GIEB PCI-E) for Suprasetter online connection. Please **check your Suprasetter Container software version's OS compatibility**, please refer to Table 5: Minimum required Container software versions.

**Note:** Server T350-S20 has been tested and qualified for Prinect in the configuration specified above. Only this minimum equipment guarantees sufficient Prinect functionality and allows conducting the automated deployment process described in section "Deployment Wizard – Overview and Usage".

**The standard number of hard disks (4) must not be undercut when the server is ordered from Dell via the Global Portal.** Note: More than four 600GB hard disks can be selected. **The deployment wizard will be cancelled if the software detects less than the required number of hard disks!**



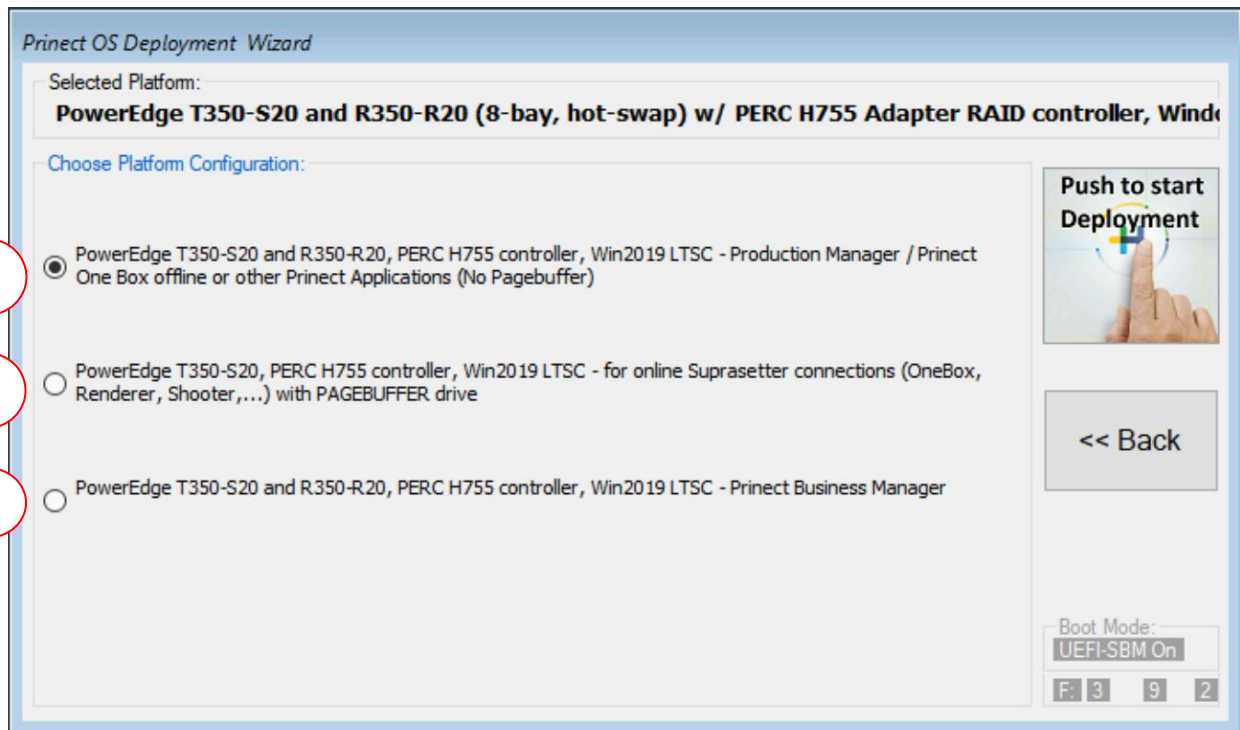
### Prinect product assignment:

This server is released for one of the following Prinect applications

- Production Manager One Box
  - offline with output via Shooter
  - online with direct output to Suprasetter up to 106
- Prinect One Box (former Prinect S)
  - offline via Prinect Shooter
  - online with direct output to Suprasetter up to 106
- Prepress Manager incl. Renderer
  - with Digital Print Manager
  - offline via Prinect Shooter
  - online with direct output to Suprasetter up to Suprasetter 106
- Pressroom Manager
- Datacenter Server
- Prepress Interface (Server)
- Portal Server
- Web2Print (Pageflex) Server
- Business Manager Server
- Renderer online with direct output to Suprasetter up to Suprasetter 106
- Renderer offline with output via Shooter

- Prinect Shooter for VLF Recorder, if hardware redundancy (RAID, power supply) is needed
- Prinect License Server, if hardware redundancy (RAID, power supply) is needed
- Automatic Paper Stretch Compensation (APSC)

### Deployment configuration options:



- 1.) Standard Prinect configuration for Prepress Manager, Pressroom Manager and other products without direct Suprasetter connection (4 up to 8 drives installed).  
Hard drive configuration:
  - Creates a multi-drive RAID5 Virtual Disk from all drives
  - VD1 is a RAID5 128K stripe size, adaptive read ahead, write back cache (System, Temp and Data drives)
  - One Hot Spare if more than 6 drives installed
- 2.) Standard Prinect configuration for Prinect products with direct Suprasetter connection (4 up to 8 drives installed).  
Hard drive configuration:
  - 2 Virtual disks: RAID 0 / RAID5 (3-7 HDDs)
    - VD1 is a RAID5 stripe size, adaptive read ahead, write back cache (System, Temp and Data drives)
    - VD2 is a RAID0 256K stripe size, adaptive read ahead, write back cache (PAGEBUFFER drive)
  - One Hot Spare if more than 7 drives installed
- 3.) Prinect Business Manager configuration (4 up to 8 drives installed):  
Hard drive configuration:
  - Creates a multi-drive RAID5 Virtual Disk from all drives
  - VD1 is a RAID5 128K stripe size, adaptive read ahead, write back cache (System and 2x Data drives)
  - One Hot Spare if more than 6 drives installed

## 2.4 Server R350-R20 (PP.222.0397)

Multi-purpose server (same performance as T350-S20 but housed in a rack chassis) mainly recommended as economic server solution.



### Specification:

DELL PowerEdge R350 Rack Server

- Intel® Xeon® E-2334, 3.4GHz, max. Turbo 4.8GHz, 4 cores /8 threads, 8M Cache, 65W TDP
- 64GB (4x 16GB) DDR4 ECC UDIMMs
- TPM 2.0 module
- PERC H755 SAS RAID controller (for internal disks)
- 8x 2.5" hot swap disk bays
- 4x 600GB SAS 2.5" 12Gbps 10k hot-plug hard disks
- Optional: Additional 600GB SAS 2.5" 6Gbps 10k hot-plug hard disk(s) in 3.5 carrier (max. 8 disk drives in total)
- Onboard dual port 1GbE Base-T LOM
- 2x PCIe 4.0 low profile slots
- 1x USB 3.0 Type A port (rear)
- No internal optical drive
- Keyboard and mouse
- Dual, redundant hot-plug power supply (1+1), 600W
- iDRAC9 Enterprise
- ReadyRails™ Sliding Rails with Cable Management Arm
- Licensed and pre-installed with Windows Server 2022 Standard English (2 Sockets / 16 cores) + 5 User-CALs
- Deployment: Windows Server 2019 LTSC Standard English (+ 10 add. Prinect Languages)
- ProSupport for IT (39 months), 24/7 Mission Critical 4 hours + "Keep your hard drive"

**The standard number of hard disks (4) must not be undercut when the server is ordered from Dell via the Global Portal. The deployment wizard will be cancelled if the software detects less than the required number of hard disks**



Please note that a direct Suprasetter connection is not released for PowerEdge R350 servers!

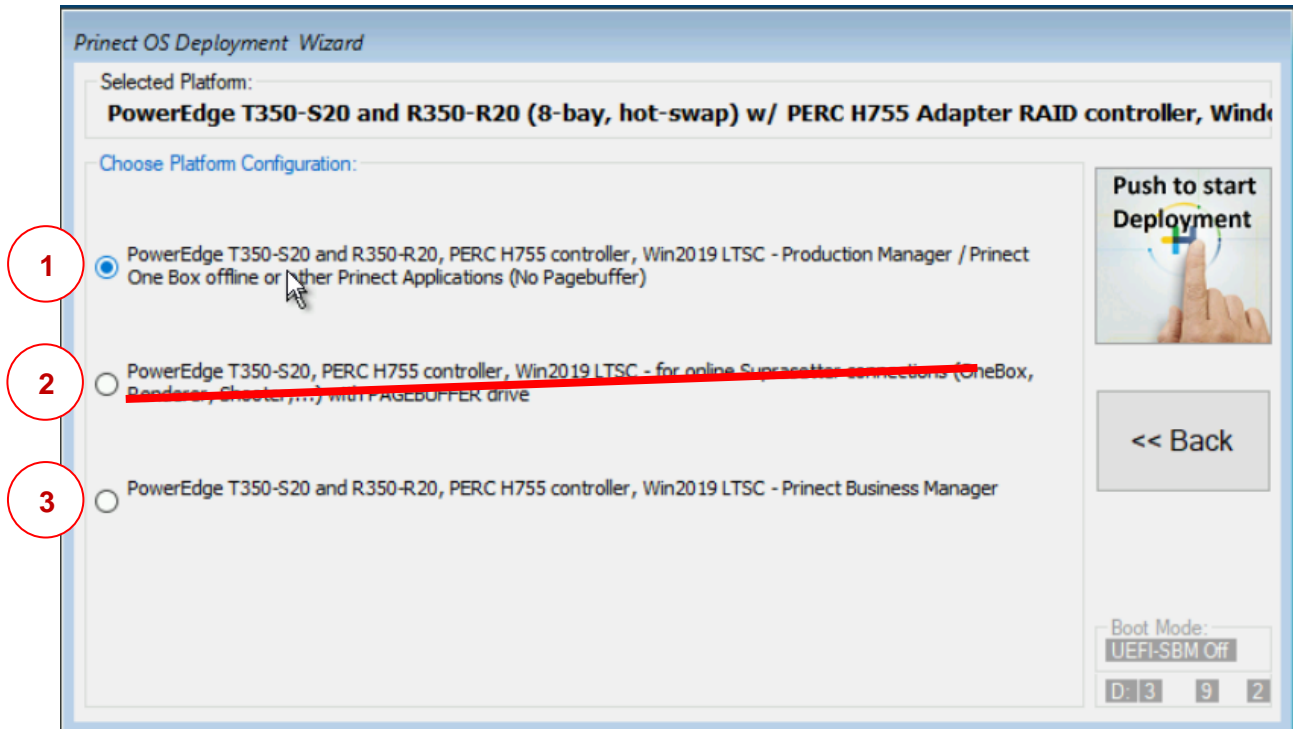
### Prinect product assignment:

This server is released for one of the following Prinect applications

- Production Manager One Box offline with output via Shooter
- Prinect One Box (former Prinect S) offline via Prinect Shooter
- Prepress Manager incl. Renderer
  - with Digital Print Manager
  - offline via Prinect Shooter
- Pressroom Manager
- Datacenter Server
- Prepress Interface (Server)
- Portal Server
- Web2Print (Pageflex) Server
- Business Manager Server
- Renderer offline with output via Shooter
- Prinect Shooter for VLF Recorder, if hardware redundancy (RAID, power supply) is needed
- Prinect License Server, if hardware redundancy (RAID, power supply) is needed
- Automatic Paper Stretch Compensation (APSC)

Server R350-R20 has been tested and qualified for Prinect in the configuration specified above. Only this minimum equipment guarantees sufficient Prinect functionality and allows conducting the automated deployment process described in section "Deployment Wizard – Overview and Usage".

Deployment configuration options:



- 1.) Standard Prinect configuration for Production Manager, Prepress Manager, Pressroom Manager and other products without direct Suprasetter connection (4 up to 8 drives installed).  
Hard drive configuration:
  - Creates a multi-drive RAID5 Virtual Disk from all drives
  - VD1 is a RAID5 128K stripe size, adaptive read ahead, write back cache (System, Temp and Data drives)
  - One Hot Spare if more than 6 drives installed
- 2.) n.a.
- 3.) Prinect Business Manager configuration (4 up to 8 drives installed):  
Hard drive configuration:
  - Creates a multi-drive RAID5 Virtual Disk from all drives
  - VD1 is a RAID5 128K stripe size, adaptive read ahead, write back cache (System and 2x Data drives)
  - One Hot Spare if more than 6 drives installed

Please note that a direct Suprasetter connection is not released for the server R350-R20!

## 2.5 Server T150-S12 (PP.222.0398)

Multi-purpose server mainly recommended as entry-level server solution. Please note that this server does not offer **any** redundancy.

### Specification:

DELL PowerEdge T150 Tower Server

- Intel® Xeon® E-2334, 3.4GHz, max. Turbo 4.8GHz, 4 cores /8 threads, 8M Cache, 65W TDP
- 32GB (2x 16GB) DDR4 UDIMMs ECC
- TPM 2.0 module
- 3x 1TB SATA 3.5" 6Gps 7k2rpm hard disks
- Onboard dual port 1GbE Base-T LOM
- 2x PCIe 4 slots + 2x PCIe 3 slots
- 1x USB 3.0 Type A port (front) + 5x USB 2.0 port (rear)
- internal SATA DVD-ROM drive
- Keyboard and mouse
- Power supply: Cabled 300W (non-redundant)
- iDRAC 9 Enterprise
- Licensed and pre-installed with Windows Server 2022 Standard English (2 Sockets / 16 cores) + 5 User-CALs
- Deployment: Windows Server 2019 LTSC Standard English (+ 10 add. Prinect Languages)
- ProSupport for IT (39 months), 24/7 Mission Critical 4 hours + "Keep your hard drive"



**The standard number of hard disks (3) must not be undercut when the server is ordered from Dell via the Global Portal. The deployment wizard will be cancelled if the software detects less than the required number of hard disks!**



### Prinect product assignment:

This server is released for one of the following Prinect applications

- Renderer standalone
  - online with direct output to Suprasetter up to Suprasetter A106 \*)
  - offline with output via Prinect Shooter
- Prinect Shooter for VLF Recorder\*) (if no redundancy is required)
- Maintenance Center standalone
- License Server standalone (if no redundancy is required)
- Prinect Labelfire Renderer Basic (add. Machine)

Please note that the server T150-S12 is **not released as Prinect Production Manager** server!

Server T150-S12 is well suitable for use as IT Infrastructure Server (ADS, DHCP, DNS, NTP etc.) **if no redundancy** is required.

#### \*) Note:

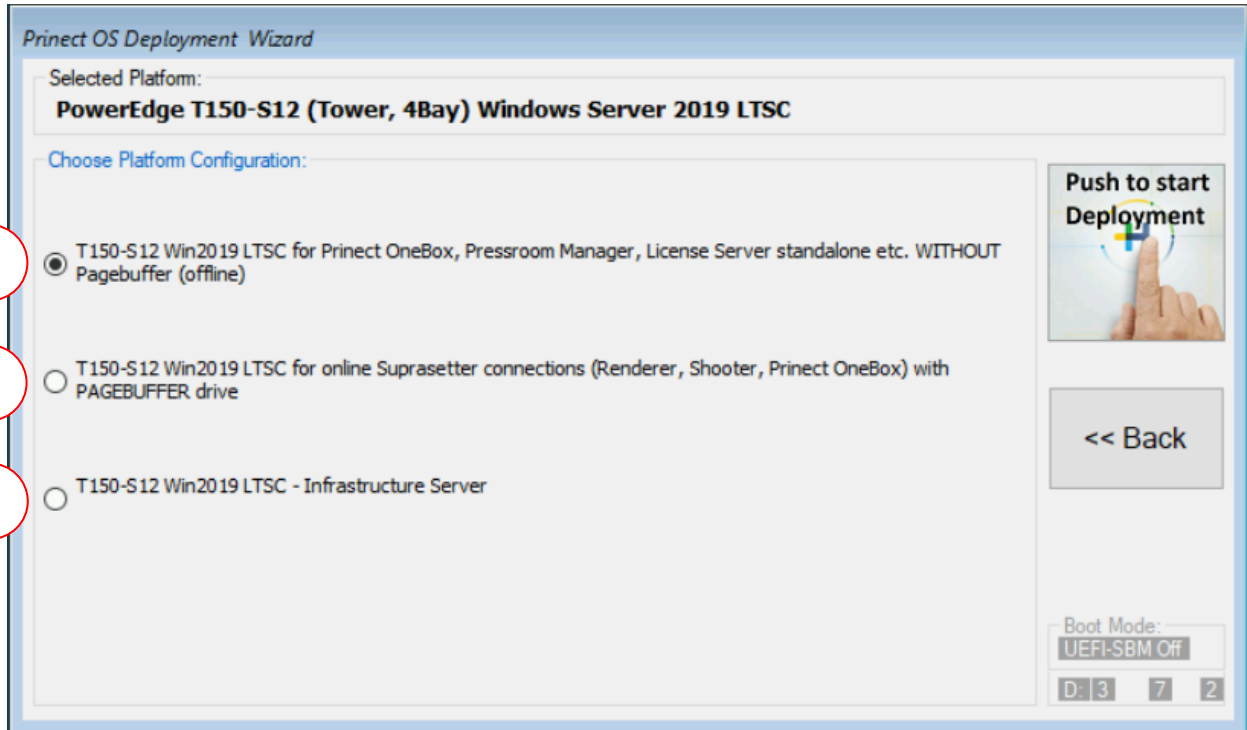
Server T150-S12 is suited for the **PCIe Speedway Interface** (GIEB-2, GIEB PCI-E) for Suprasetter online connection. Please **check your Suprasetter Container software version's OS compatibility** please refer to Table 5: Minimum required Container software versions.



#### Note:

Server T150-S12 has been tested and qualified for Prinect in the configuration specified above. Only this minimum equipment guarantees sufficient Prinect functionality and allows conducting the automated deployment process described in section "Deployment Wizard – Overview and Usage".

Deployment configuration options:



- 1.) Standard Prinect configuration Prepress Manager, Pressroom Manager, License Server (standalone) and other products without direct Suprasetter connection:

Hard drive configuration:

- 3 drives installed
- No RAID configuration:
  - Drive 1: System
  - Drive 2: Temp
  - Drive 3: Data

- 2.) Standard Prinect configuration for Prinect products with direct Suprasetter connection.

Hard drive configuration:

- 3 drives installed
- No RAID configuration:
  - Drive 1: System & Temp
  - Drive 2: Data
  - Drive 3: PAGEBUFFER

- 3.) Infrastructure server configuration.

Hard drive configuration:

- 3 drives installed
- No RAID configuration:
  - Drive 1: System
  - Drive 2: Temp
  - Drive 3: Data

### 3. Wallscreen & PDFI Server Platforms

These servers are configured for the use as Wallscreen and PDF Inspection Toolbox Application Servers. They come with Remote Desktop Services Client Access Licenses for five users.

#### 3.1 Server T350-WT7 (PP.222.0399)

Terminal server recommended as tower server solution for PDF Inspection Toolbox and Wallscreen with Prinect Workflow and Remote Desktop Applications.

##### Specification:

DELL PowerEdge T350 Tower Server

- Intel® Xeon® E-2334, 3.4GHz, max. Turbo 4.8GHz, 4 cores /8 threads, 8M Cache, 65W TDP
- 32GB (2x 16GB) DDR4 UDIMMs ECC
- TPM 2.0 module
- PERC H345 RAID Controller
- 2x 2TB SATA 3.5" 6Gbps 7k2rpm hard disks in hot-plug carrier (RAID 1)
- 2x PCIe 4.0 slots + 2x PCIe 3.0 slots
- Onboard dual port 1GbE Base-T LOM
- iDRAC9 Enterprise
- internal SATA DVD-ROM drive
- Keyboard and mouse
- Power supply: Dual, redundant hot-plug power supply (1+1), 600W
- Licensed and pre-installed with Windows Server 2022 Standard English (2 Sockets / 16 cores) + 5 User-CALs
- Deployment: Windows Server 2019 LTSC Standard English (+ 10 add. Prinect Languages)
- Remote Desktop Services Client Access Licenses for five users
- ProSupport for IT (39 months), 24/7 Mission Critical 4 hours + "Keep your hard drive"



**The standard number of hard disks (2) must not be undercut when the server is ordered from Dell via the Global Portal. The deployment wizard will be cancelled if the software detects less than the required number of hard disks!**



##### Prinect product assignment:

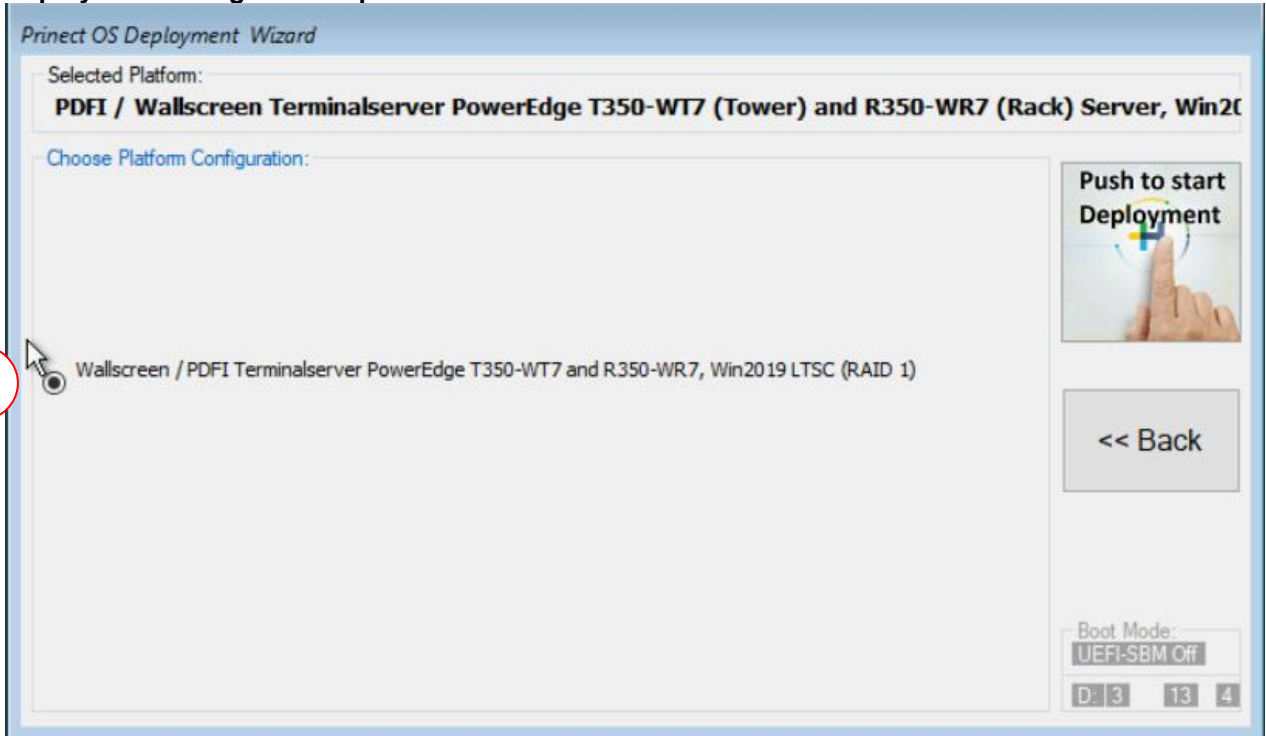
This server is released for one of the following applications

- PDF Inspection Toolbox
- Wallscreen with Remote Desktop Applications.

##### Note:

Server T350-WT7 has been tested and qualified in the configuration specified above. Only this minimum equipment guarantees sufficient Prinect functionality and allows conducting the automated deployment process described in section "Deployment Wizard – Overview and Usage".

Deployment configuration options:



- 1.) Standard Wallscreen configuration for both system, Tower and Rack-mounted.  
Hard drive configuration:
  - 2 drives installed, configured as RAID1
  - 1 Virtual disk: VD1 is a RAID1, containing
    - Partition 1: System
    - Partition 2: Temp

### 3.2 Server R350-WR7 (PP.222.0400)

Terminal server recommended as rack-mounted server solution for Wallscreen with Prinect Workflow and Remote Desktop Applications (same performance as T350-WT7 but housed in a rack chassis).



#### Specification:

DELL PowerEdge R350 Rack Server

- Intel® Xeon® E-2334, 3.4GHz, max. Turbo 4.8GHz, 4 cores /8 threads, 8M Cache, 65W TDP
- 32GB (2x 16GB) DDR4 UDIMMs ECC
- TPM 2.0 module
- PERC H345 RAID Controller
- 2x 2TB SATA 3.5" 6Gbps 7k2rpm hard disks in hot-plug carrier (RAID 1)
- 2x PCIe 4.0 slots + 2x PCIe 3.0 slots
- Onboard dual port 1GbE Base-T LOM
- iDRAC9 Enterprise
- 2x PCIe 4.0 low profile slots
- 1x USB 3.0 Type A port (rear)
- Internal SATA DVD-ROM drive
- Keyboard and mouse
- Power supply: Dual, redundant hot-plug power supply (1+1), 600W
- ReadyRails™ Sliding Rails with Cable Management Arm
- Licensed and pre-installed with Windows Server 2022 Standard English (2 Sockets / 16 cores) + 5 User-CALs
- Deployment: Windows Server 2019 Standard English (+ 10 add. Prinect Languages)
- Remote Desktop Services Client Access Licenses for five users
- ProSupport for IT (39 months), 24/7 Mission Critical 4 hours + "Keep your hard drive"



**The standard number of hard disks (2) must not be undercut when the server is ordered from Dell via the Global Portal. The deployment wizard will be cancelled if the software detects less than the required number of hard disks!**

#### Prinect product assignment:

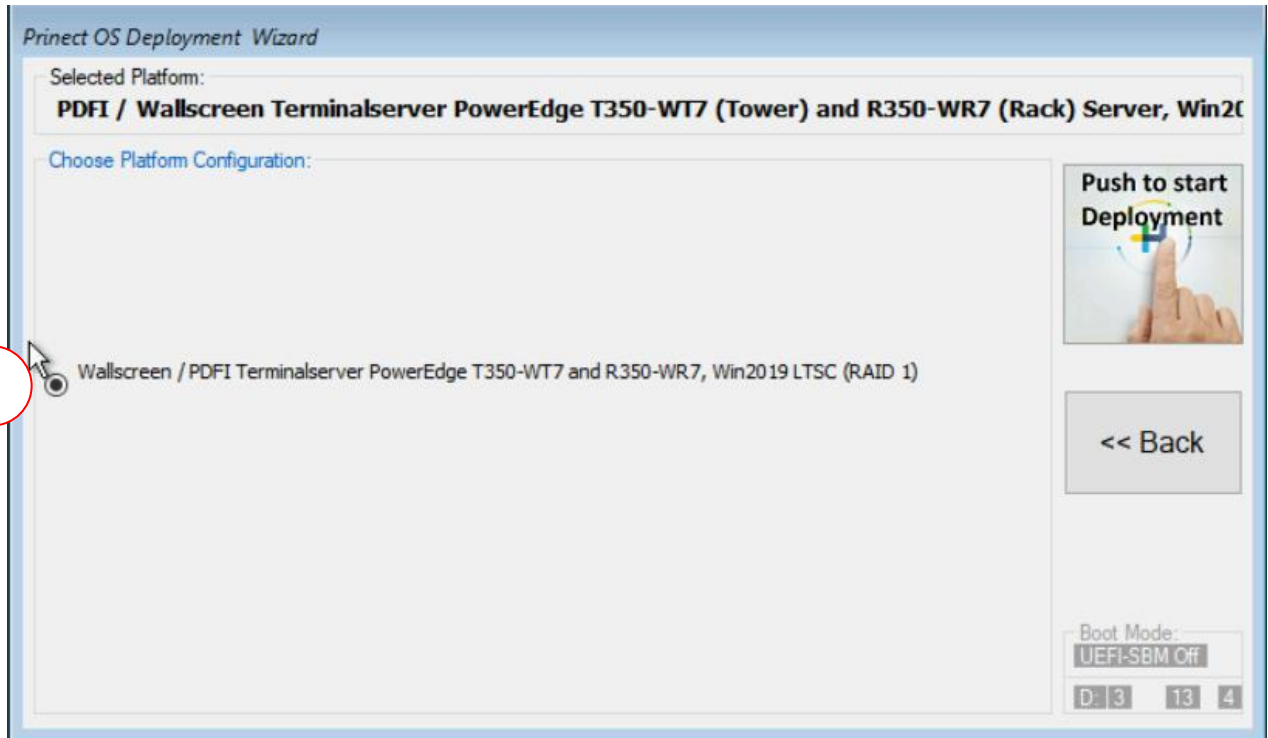
This server is released for one of the following applications

- PDF Inspection Toolbox
- Wallscreen with Remote Desktop Applications.

#### Note:

Server R350-WR7 has been tested and qualified in the configuration specified above. Only this minimum equipment guarantees sufficient Prinect functionality and allows conducting the automated deployment process described in section "Deployment Wizard – Overview and Usage".

Deployment configuration options:



1.) Standard configuration for both systems, Tower and Rack-mounted.

Hard drive configuration:

- 2 drives installed, configured as RAID1
- 1 Virtual disk: VD1 is a RAID1 64K stripe size and write thru cache, containing
  - Partition 1: System
  - Partition 2: Temp

## 4. Workstation Platforms

Basic systems are DELL's new workstations Precision 3650 Tower for high-performance purposes and Optiplex XE3 for interactive tasks and as standard PC. The XE3 hardware is designed for 24/7 operation.

Please note that Optiplex XE3 and Precision 3650 Tower contain Intel CPUs that do not support Microsoft operating systems older than Windows 10 and therefore cannot be downgraded.

Both systems support 4k displays. The standard workstation configurations as described below do **not** include a monitor. If required, a display can be selected from the monitor list within the "Standard Configurations" sections in DELL's Global Portal.

### 4.1 Workstation T3650-C10 (PP.222.0392)

The Workstation T3650-C10 is the dedicated Prinect Shooter platform for high-performance plate output on all Suprasetters up to (and including) VLF Suprasetters. In addition, it is designed as external High Performance Renderer Platform for Labelfire Digital Presses.

It is also suitable as entry-level product platform in case no server functionality is required. If ColorProof Pro should be operated on a separate hardware, T3650-C10 is the workstation of choice, too. T3650-C10 is the recommended client/server platform for Pressroom Manager stand-alone (as substitute for Prepress Interface). In this case, the Scheduler cannot be installed and only one Cockpit can be operated. The T3650-C10 is equipped with a fast PCIe solid-state Disk (SSD). For Suprasetter online installations, the SSD will be used as fast Pagebuffer drive, for other installations, the SSD will be used as fast system and temp drive.



#### Specification:

- Dell Precision 3640 Tower
- Intel® Core™ i7-11700 (8C/16T, 2.5GHz, max. Turbo 4.9GHz, 16MB Cache)
- Integrated Intel UHD Graphics 750 with 60Hz 4k display support
- 32 GB Memory (2x16GB) 2933MHz DDR4 Non-ECC
- TPM 2.0 module
- Integrated Intel controller 6Gbit/s SATA RAID 0/1/5 (4 ports)
- **Additional** Intel I210 Gigabit Ethernet NIC (e.g., for Suprasetter connectivity)
- 256GB class 40 M.2 PCIe NVMe SSD
- 1TB 2.5" SATA (7k2 rpm) Hard Drive
- DVD +/- RW writer
- Keyboard and mouse
- 2x Display Port and 1x VGA connector
- Power supply 300W (80Plus Gold), 100-240V, 50/60Hz
- Pre-installed and licensed with Windows 10 Pro 64-bit English
- Deployment: Windows 10 Pro v21H2 64-bit English (+ 10 additional Prinect Languages)
- 3 years Pro Support with 24/7 4h On-Site Service After Remote Diagnostics (optional downgrade to 3 years Pro Support NBD)
- 3 years "Keep your hard drive"

#### Prinect product assignment:


Workstation T3650-C10 has been qualified and released for one of the following Prinect applications

- Pressroom Manager standalone
- Renderer standalone
  - online with direct output to Suprasetter up to A106 \*)
  - offline with output via Prinect Shooter
- ColorProof Pro Station
- Prepress Interface (Client & Server)
- Prinect Shooter up to Suprasetter 145/162/190 (VLF)
- Automatic Paper Stretch Compensation (APSC) standalone
- Labelfire Renderer Basic (add. Machine)

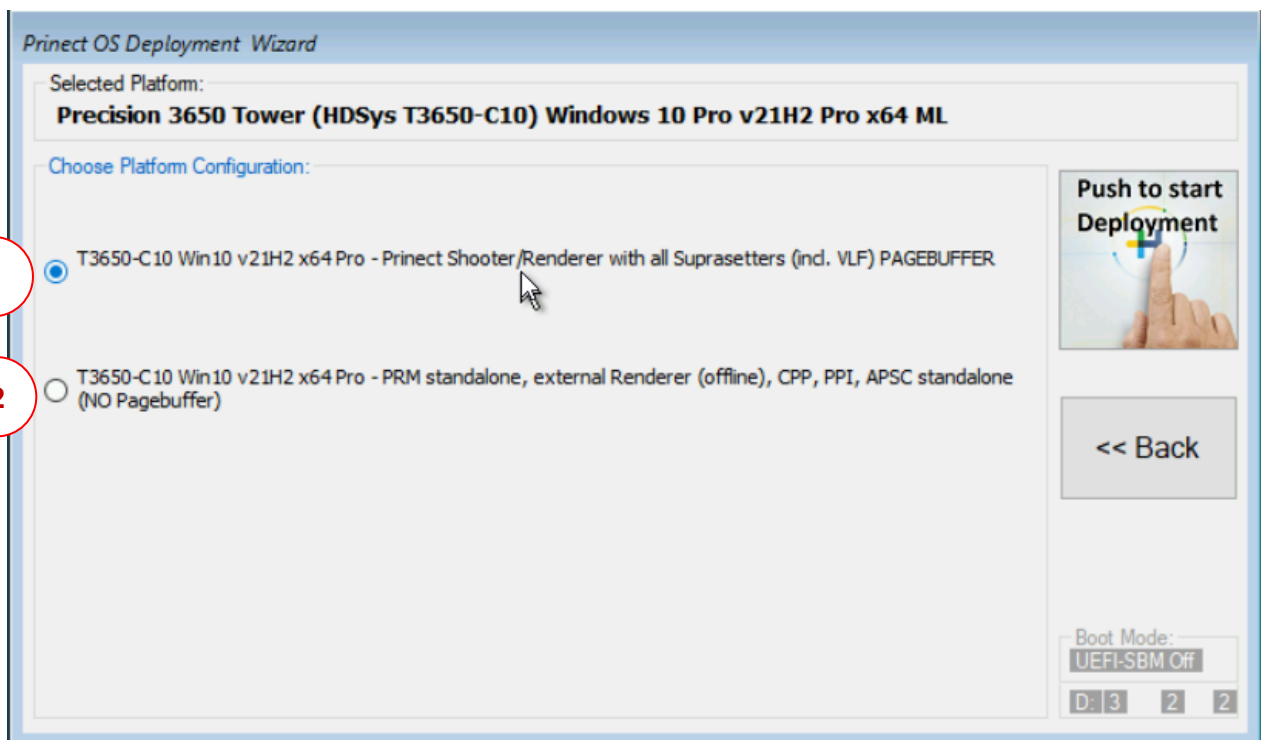
This workstation **supports only Windows 10; it does not support older Microsoft Operating systems!**

\*) **Note for Suprasetter online connections:**

Workstation T3650-C10 is suited for the **PCIe Speedway Interface** (GIEB-2, GIEB PCI-E) for Suprasetter online connection, installed in PCIe slot 1 (slot 3 is already occupied by the network PCIe card). It is recommended to install the Speedway Interface card before you start the deployment. Please **check your Suprasetter Container software version's OS compatibility** please refer to Table 5: Minimum required Container software versions.

The SI PT.000.1182-000S10 from 2006-02-03 describes the requirement of a PCI-X (i.e., 64-bit) slot to drive a Suprasetter with the PCI4GEN3 PCI Speedway board due to performance reasons; this is also valid for the successor PCI Speedway board GBIP. In general, a PCI-X-slot is the technical requirement to drive a Suprasetter with an old PCI speedway board. Please note that the T3650 does not support this old technology, it is designed to support the actual GIEB PCIe Speedway boards. 

**Deployment configuration options:**



- 1.) Standard Prinect configuration for Prinect products with direct Suprasetter configuration, Windows 10 Pro x64.

Hard drive configuration:

- 2 drives installed (1x SSD, 1x HDD)
- No RAID configuration
  - Disk 1 (HDD): System, Temp and Data partitions
  - Disk 2 (SSD): PAGEBUFFER drive

- 2.) Standard Prinect configuration for Pressroom Manager standalone, Color Proof Pro, PPI and other Prinect products without direct Suprasetter configuration, Windows 10.

Hard drive configuration:

- 2 drives installed (1x SSD, 1x HDD)
- No RAID configuration
  - Disk 1 (SSD): System and Temp partitions
  - Disk 2 (HDD): Data Drive

## 4.2 Workstation XE3-C33 (PP.222.0296)

The Workstation XE3-C33 has been mainly equipped and released to run the interactive Prinect applications; nevertheless, a 24/7 operation is possible. Please note: It is Coffee Lake based and does not support Microsoft operating systems older than Windows 10.



### Specification:

- DELL Optiplex XE3 Small Form Factor (SFF) Chassis
- Intel® Core™ i3-8100 Processor (4C/4T, 3.6GHz, 65W TDP, 6MB), integrated UHD Graphics 630 with 60Hz 4k display support)
- Intel Q370 chipset
- 16 GB (2x 8GB) Memory DDR4, Non-ECC
- TPM 2.0 module
- 1 TB M.2 NVMe PCIe class 40 Solid State Drive
- 5x USB 3.1 Gen1 ports (1 front, 4 rear)
- 1x USB 3.1 Gen2 port with PowerShare (front)
- 3x USB2.0 ports (1 front, 2 rear) & 1x USB 2.0 port with PowerShare (front)
- 2x Display Port and 1x VGA connector
- Intel i219-V 1-Gigabit-Ethernet-LAN-Adapter, 10/100/1000
- 8x slimline DVD +/-RW drive
- Internal Dell Business Audio speaker
- Keyboard and mouse
- Power supply: Standard 300W up to 90% efficient (80Plus Gold)
- Pre-installed and licensed with Windows 10 Pro 64-bit English
- Deployment: Windows 10 Pro v21H2 64-bit English/US (+ 10 additional Prinect Languages)
- 3 years Pro Support NBD (optional 24/7 4h On-Site Service After Remote Diagnostics Pro Support)
- 3 years "Keep your hard drive"

### Prinect product assignment:

Interactive Prinect applications

- Signa Station
- Prinect Cockpit
- Prinect Mobile Webservice
- PDF Toolbox
- Color Toolbox
- Calibration Toolbox
- Package Designer
- Prinect Web Shop DFE
- License Server standalone (if no redundancy is required)
- Maintenance Center standalone (if no redundancy is required)
- Prinect PDF Inspection Toolbox Client
- Labelfire Substrate Qualification

In addition, it serves as a standard PC for applications requiring a fast and inexpensive Windows computer.

Note:

**This workstation supports only Windows 10; it does not support older Microsoft Operating systems!**

**Deployment configuration options:**

The XE3-C33 contains one drive that will be partitioned accordingly and contains the System, Temp and Data disk.



- 1.) Standard Prinect configuration with SSD for Prinect Client software products, Windows 10 Pro x64.  
Hard drive configuration:
  - 1 drive installed (1x SSD)
  - No RAID configuration, Disk 1 (SDD): System, Temp and Data partitions

## 5. Coming Workstation Platforms

Basic systems are DELL's new workstations Precision 3660 XE Tower for high-performance purposes and Optiplex XE4 for interactive tasks and as standard PC. Both systems are OEM versions, designed for 24/7 operation and with a long lifecycle.

Please note that both systems contain Intel CPUs that do not support Microsoft operating systems older than Windows 10 and therefore cannot be downgraded.

Both systems support 4k displays. The standard workstation configurations as described below do **not** include a monitor. If required, a display can be selected from the monitor list within the "Standard Configurations" sections in DELL's Global Portal.

### 5.1 Workstation T3660-C11 (PP.222.0432)

The Workstation T3660-C11 is the dedicated Prinect Shooter platform for high-performance plate output on all Suprasetters up to (and including) VLF Suprasetters. In addition, it is designed as external High Performance Renderer Platform for Labelfire Digital Presses.

It is also suitable as entry-level product platform in case no server functionality is required. If ColorProof Pro should be operated on a separate hardware, T3660-C11 is the workstation of choice, too. T3660-C11 is the recommended client/server platform for Pressroom Manager stand-alone (as substitute for Prepress Interface). In this case, the Scheduler cannot be installed and only one Cockpit can be operated. The T3660-C11 is equipped with a fast PCIe solid-state Disk (SSD). For Suprasetter online installations, the SSD will be used as fast Pagebuffer drive, for other installations, the SSD will be used as fast system and temp drive.



#### Specification:

- Dell Precision 3660 XE Tower
- Intel® Core™ i7-12700 12 cores (8P+4E), 2.1 - 4.9GHz, 25MB Cache, 65W TDP)
- Integrated Intel UHD Graphics 770 with 60Hz 4k display support
- 32 GB Memory (2x16GB) DDR5 UDIMM Non-ECC
- TPM 2.0 module
- Integrated Intel controller 6Gbit/s SATA RAID 0/1/5 (4 ports)
- Onboard Intel I219 Gigabit controller
- **Additional** Intel I225 2.5 Gb/s Ethernet NIC (e.g., for Suprasetter connectivity)
- 512GB class 40 M.2 PCIe NVMe SSD
- 1TB 2.5" SATA (7k2 rpm) Hard Drive
- DVD +/- RW writer
- Keyboard and mouse
- 2x Display Port and 1x VGA connector
- Power supply 300W (Platinum), 100-240V, 50/60Hz
- Pre-installed with Windows 10 Pro 64-bit English, Windows 11 Pro license included
- Deployment: Windows 10 Pro v21H2 64-bit English (+ 10 additional Prinect Languages)
- 3 years Pro Support with 24/7 4h On-Site Service After Remote Diagnostics (optional downgrade to 3 years Pro Support NBD)
- 3 years "Keep your hard drive"

#### Prinect product assignment:

Workstation T3660-C11 has been qualified and released for one of the following Prinect applications

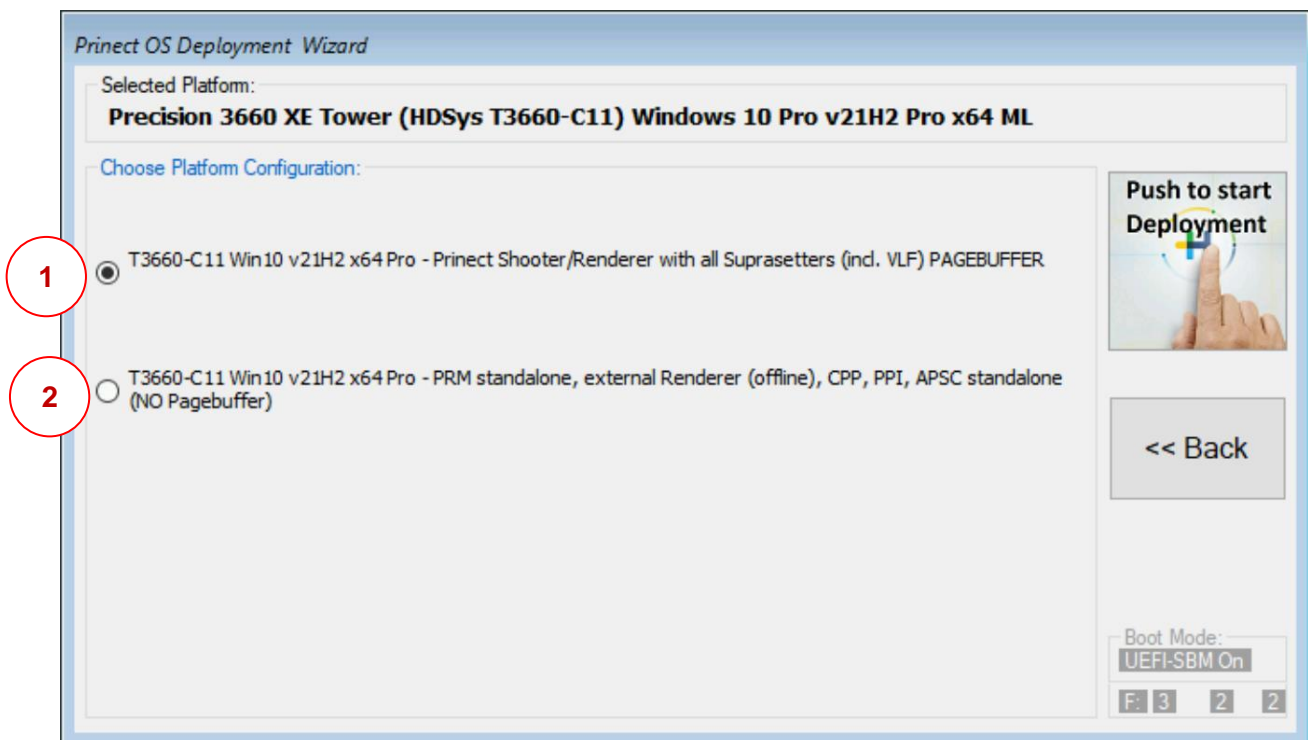
- Pressroom Manager standalone
- Renderer standalone
  - online with direct output to Suprasetter up to A106 \*)
  - offline with output via Prinect Shooter
- ColorProof Pro Station
- Prepress Interface (Client & Server)
- Prinect Shooter up to Suprasetter 145/162/190 (VLF)
- Automatic Paper Stretch Compensation (APSC) standalone
- Labelfire Renderer Basic (add. Machine)

This workstation **supports only Windows 10**; it does not support older Microsoft Operating systems!

\*) **Note for Suprasetter online connections:**

Workstation T3660-C11 is suited for the **PCIe Speedway Interface** (GIEB-2, GIEB PCI-E) for Suprasetter online connection, installed in PCIe slot 1 (slot 3 is already occupied by the network PCIe card). It is recommended to install the Speedway Interface card before you start the deployment. Please **check your Suprasetter Container software version's OS compatibility** please refer to Table 5: Minimum required Container software versions.

**Deployment configuration options:**



- 3.) Standard Prinect configuration for Prinect products with direct Suprasetter configuration, Windows 10 Pro x64.

Hard drive configuration:

- 2 drives installed (1x SSD, 1x HDD)
- No RAID configuration
  - Disk 1 (HDD): System, Temp and Data partitions
  - Disk 2 (SSD): PAGEBUFFER drive

- 4.) Standard Prinect configuration for Pressroom Manager standalone, Color Proof Pro, PPI and other Prinect products without direct Suprasetter configuration, Windows 10.

Hard drive configuration:

- 2 drives installed (1x SSD, 1x HDD)
- No RAID configuration
  - Disk 1 (SSD): System and Temp partitions
  - Disk 2 (HDD): Data Drive

## 5.2 Workstation XE4-C34 (PP.222.0431)

The Workstation XE4-C34 has been mainly equipped and released to run the interactive Prinect applications; nevertheless, a 24/7 operation is possible. Please note: It is Coffee Lake based and does not support Microsoft operating systems older than Windows 10.



### Specification:

- DELL OptiPlex XE4 Small Form Factor (SFF) Chassis
- Intel® Core™ i3-12100 Processor (4C/8T, 3.3 – 4.3GHz, 60W TDP, 12MB)
- Integrated UHD Graphics 730 with 60Hz 4k display support
- 16 GB (2x 8GB) Memory DDR4 UDIMM, Non-ECC
- TPM 2.0 module
- 1 TB M.2 NVMe PCIe class 35 Solid State Drive
- Front USB ports: 2x USB 2.0 (1x with PowerShare), 1x USB 3.2 Gen 2, 1x USB 3.2 Gen 2x2 Type-C
- Rear USB ports: 3x USB 3.2 Gen 1, 1x USB 3.2 Gen 2, 2x USB 2.0 with Smart Power On
- 3x Display Port 1.4 and 1x VGA connector
- Intel i219-V 1-Gigabit-Ethernet-LAN-Adapter, 10/100/1000
- 8x slimline DVD +/-RW drive
- Internal Dell Business Audio speaker
- Keyboard and mouse
- Power supply: Standard 300W up to 92% efficient (80Plus Platinum)
- Pre-installed with Windows 10 Pro 64-bit English, Windows 11 Pro license included
- Deployment: Windows 10 Pro v21H2 64-bit English/US (+ 10 additional Prinect Languages)
- 3 years Pro Support NBD (optional 24/7 4h On-Site Service After Remote Diagnostics Pro Support)
- 3 years “Keep your hard drive”

### Prinect product assignment:

Interactive Prinect applications

- Signa Station
- Prinect Cockpit
- Prinect Mobile Webservice
- PDF Toolbox
- Color Toolbox
- Calibration Toolbox
- Package Designer
- Prinect Web Shop DFE
- License Server standalone (if no redundancy is required)
- Maintenance Center standalone (if no redundancy is required)
- Prinect PDF Inspection Toolbox Client
- Labelfire Substrate Qualification

In addition, it serves as a standard PC for applications requiring a fast and inexpensive Windows computer.

Note:

This workstation **supports only Windows 10; it does not support older Microsoft Operating systems!**

**Deployment configuration options:**

The XE4-C34 contains one drive that will be partitioned accordingly and contains the System, Temp and Data disk.



- 2.) Standard Prinect configuration with SSD for Prinect Client software products, Windows 10 Pro x64.  
Hard drive configuration:
- 1 drive installed (1x SSD)
  - No RAID configuration, Disk 1 (SDD): System, Temp and Data partitions

## 6. Digital Printing Workflow Platforms

Systems used for digital printing workflows for Labelfire presses need to calculate a huge amount of data in a short time. Therefore, some high-performance systems are available, adapted to the special requirements of the according digital press workflow systems.

**Note:** The platforms described in this section are **only** used within Digital Printing Workflows; however, server and client platforms described in earlier chapters are also used in some Digital Printing Workflow environments, please refer to the according Product assignment description for details: E.g., the Workstation T3650-C10 or T3660-C11 (see chapter Workstation T3660-C11 (PP.222.0432) for details) is also designed as external High-Performance Renderer Platform for Labelfire Digital Presses.

### 6.1 Server R640-PR66 (PP.222.0401)

High-end server in a 1U rack chassis (same performance as T640-PR67). The Server R640-PR66 is designed as Prinect workflow server for high performance environments like high-end Labelfire systems. It may also be used as external High-Performance Renderer Platform for high-end Labelfire Digital Presses.



#### Specification:

DELL PowerEdge R640 1U Rack Server

- 2x Intel® Xeon® Gold 5220, 2.2 GHz, max Turbo 3.9 GHz, 18C/36T, 24.75 MB Cache, 2 UPI 10.4GT/s, 125W TDP
- 128GB (8x 16GB) DDR4 dual rank RDIMMs
- BOSS (Boot Optimized Server Storage) controller card with 2x 240GB M.2 (RAID1)
- PERC H750 RAID controller, 12GBps SAS (for internal data disks)
- 8 hot-swap disk bays 2.5"
- 5x 1.2TB SAS 2.5" 10k hot-plug hard disks (RAID 5)
- Option: Additional 1.2TB SAS 2.5" disk(s)
- 2 PCIe 3.0 16x low profile slots
- USB 3.0 support (two rear USB3 connectors)
- Onboard network daughter card Broadcom 57416 dual port 10Gbit/s Base-T + Broadcom 5720 dual port 1Gbit/s Base-T
- Option: Broadcom 57412 2-port 10GbE SFP+ NIC
- internal SATA DVD-ROM drive
- iDRAC9 Enterprise
- ReadyRails™ Sliding Rails with Cable Management Arm
- Rack bezel
- Keyboard and mouse
- Redundant hot-plug power supplies (1+1): 2x 750W, voltage auto ranging
- Licensed and pre-installed with Windows Server 2022 Standard English (36 cores) + 5 User-CALs
- Deployment: Windows Server 2019 LTSC Standard English (+ 10 add. Prinect Languages)
- ProSupport Plus for IT (39 months), 24/7 Mission Critical 4 hours
- Option: 5 years or 7 years ProSupport Plus, 24/7 Mission Critical 4 hours

#### Network Interface Card options:

The PowerEdge R640 comes with a network daughter board that is equipped with two 10GbE ports (Broadcom 57416) and two 1GbE ports (Broadcom 5720). To connect the PowerEdge R640 Server to a fiber-based 10Gb network environment, order the optional Broadcom 57412 dual port 10GbE SFP+ network interface card.

#### Prinect product assignment:

This server is released for one of the following Prinect applications

- Labelfire Workflow Server
  - for more than one Labelfire
  - for more than one Labelfire and additional Prinect workflow components
- Labelfire All-In-One (AIO)

- for Prinect Workflow with one Labelfire Renderer
- Performance Plus: For Prinect Workflow with one Labelfire Renderer Performance Plus
- Production Manager for Labelfire
  - with max. one CtP Renderer
- High-end Prinect Workflow systems with extreme workload
- Labelfire Renderer with Performance Plus

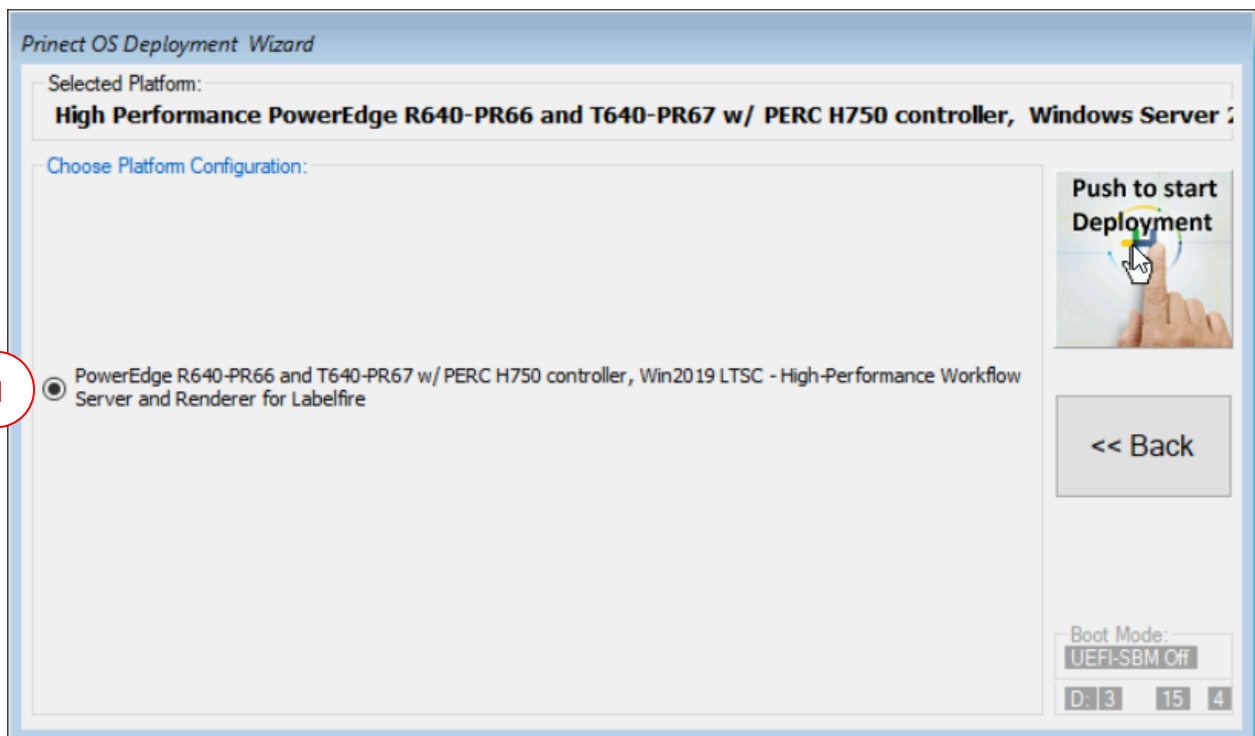
**Note:**

Server R640-PR66 has been tested and qualified for the configuration specified above. Only this minimum equipment guarantees sufficient Prinect functionality and allows conducting the automated deployment process described in section “Deployment Wizard – Overview and Usage”.

**The standard number of hard disks (5) must not be undercut when the server is ordered from Dell via the Global Portal.** However, more than five 1.2TB hard disks are not critical. The deployment wizard will be cancelled if the software detects **less** than the required number of hard disks!



**Deployment configuration options:**



1.) Standard Prinect configuration for all Prinect products

Hard drive configuration:

- 5 up to 8 drives installed:
- 2 Virtual disks: BOSS RAID1 / PERC RAID5 (5-8 HDDs)
  - VD1: BOSS RAID1 (System drive)
  - VD2: PERC RAID5 128K stripe size, adaptive read ahead and write back cache (Data & Temp drive)

## 6.2 Server T640-PR67 (PP.222.0402)

High-end server in a tower chassis (same performance as R640-PR64). The server T640-PR67 is designed as Prinect workflow server for high performance environments like high-end Labelfire systems. It may also be used as external High-Performance Renderer Platform for high-end Labelfire Digital Presses.



### Specification:

DELL PowerEdge T640 Server Tower

- 2x Intel® Xeon® Gold 5220, 2.2 GHz, max Turbo 3.9 GHz, 18C/36T, 24.75 MB Cache, 2 UPI 10.4GT/s, 125W TDP
- 128GB (8x 16GB) DDR4 dual rank RDIMMs
- BOSS (Boot Optimized Server Storage) controller card with 2x 240GB M.2 (RAID1)
- PERC H750 RAID controller, 12GBps SAS (for internal data disks)
- 16 hot-swap disk bays 2.5"
- 5x 1.2TB SAS 2.5" 10k hot-plug hard disks (RAID 5)
- Option: Additional 1.2TB SAS 2.5" disk(s)
- 9 PCIe 3.0 slots (2 CPU configuration)
- USB 3.0 support (one front, four rear USB3 connector)
- Onboard Broadcom dual port 10GbE Base-T LOM
- Broadcom 5720 2-port 1GbE Base-T NIC
- Option: Broadcom 57412 dual port 10GbE SFP+ NIC
- internal SATA DVD-ROM drive
- iDRAC9 Enterprise
- Keyboard and mouse
- Redundant hot-plug power supplies (1+1): 2x 750W, voltage auto ranging
- Licensed and pre-installed with Windows Server 2022 Standard English (36 cores) + 5 User-CALs
- Deployment: Windows Server 2019 LTSC Standard English (+ 10 add. Prinect Languages)
- ProSupport Plus for IT (39 months), 24/7 Mission Critical 4 hours
- Option: 5 years or 7 years ProSupport Plus, 24/7 Mission Critical 4 hours

### Network Interface Card options:

The T640-PR67 comes with two 10GbE Base-T onboard LOM ports and two 1GbE ports on a separate network interface card. To connect the PowerEdge T640 Server to a fiber-based 10GbE network environment, order the optional Broadcom 57412 dual port 10GbE SFP+ network interface card.

### Product assignment:

This server is released for one of the following Prinect applications

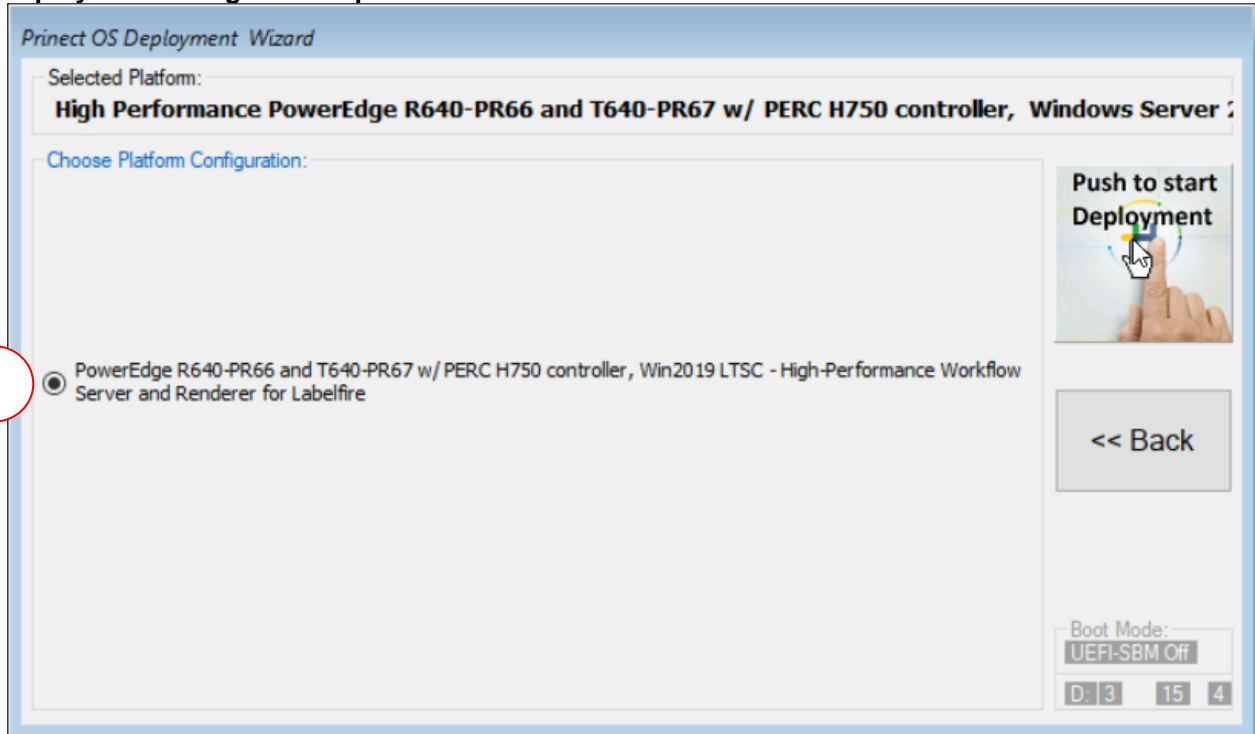
- Full Prinect Workflow System for
  - Labelfire High-end All-In-One with integrated High-Performance Renderer (One Labelfire press only)
  - Labelfire with external High-Performance Renderer (more than one Labelfire press)
  - High-End Prinect Workflow systems with extreme workload
- External High-Performance Renderer (High-end) for Labelfire

Server T640-PR67 has been tested and qualified for Prinect in the configuration specified above. Only this minimum equipment guarantees sufficient Prinect functionality and allows conducting the automated deployment process described in section "Deployment Wizard – Overview and Usage".

**The standard number of hard disks (5) must not be undercut when the server is ordered from Dell via the Global Portal.** However, more than five hard disks are not critical. The deployment wizard will be cancelled if the software detects **less** than the required number of hard disks!



Deployment configuration options:



1.) Standard Prinect configuration for all Prinect products.

Hard drive configuration:

- 5 up to 16 drives installed:
- 2 Virtual disks: BOSS RAID1 / PERC RAID5 (5-16 HDDs)
  - VD1: BOSS RAID1 (System drive)
  - VD2: PERC RAID5 128K stripe size, adaptive read ahead and write back cache (Data & Temp drive)
- One Hot Spare if more than 9 drives installed

## 7. Coming Digital Printing Workflow Platforms

Systems used for digital printing workflows for Labelfire presses need to calculate a huge amount of data in a short time. Therefore, some high-performance systems are available, adapted to the special requirements of the according digital press workflow systems.

**Note:** The platforms described in this section are **only** used within Digital Printing Workflows; however, server and client platforms described in earlier chapters are also used in some Digital Printing Workflow environments, please refer to the according Product assignment description for details: E.g., the Workstation T3660-C11 (see chapter Workstation T3660-C11 (PP.222.0432) for details) is also designed as external High-Performance Renderer Platform for Labelfire Digital Presses.

### 7.1 Server R450-PR68 (PP.222.0430)

High-end server in a 1U rack chassis (same performance as T550-PR69). The Server R450-PR68 is designed as Prinect workflow server for high performance environments like high-end Labelfire systems. It may also be used as external High-Performance Renderer Platform for high-end Labelfire Digital Presses.



#### Specification:

DELL PowerEdge R450 1U Rack Server

- 1 x Intel® Xeon® Silver 4310, 12 cores / 24 threads, 2.1 GHz, Turbo max 3.3 GHz, 18 MB Cache, 2 UPI lanes, 120W TDP
- 128GB (8x 16GB) DDR4 RDIMMs
- TPM 2.0 module
- BOSS (Boot Optimized Server Storage) controller card with 2x 240GB M.2 (RAID1)
- PERC H755 SAS front RAID controller (for internal data disks)
- 8x 2.5" hot swap disk bays
- 5x 1.2TB SAS 2.5" 10k hot-plug hard disks (RAID 5)
- Option: Additional 1.2TB SAS 2.5" 10k hot-plug hard disk(s)
- 1 PCIe 4.0 16x low profile slot
- USB 3.0 support (1x front, 1x rear USB3 Type A connector)
- Onboard 2 Ports 1Gbit/s Base-T Ethernet LOM
- Broadcom 57416 2 Ports 10Gbit/s Base-T OPC NIC
- Option: Broadcom 57412 2-port 10GbE SFP+ NIC PCIe (low profile)
- No internal optical drive
- iDRAC9 Enterprise
- ReadyRails™ Sliding Rails with Cable Management Arm
- Rack bezel
- Keyboard and mouse
- Redundant hot-plug power supplies (1+1): 2x 800W, voltage auto ranging
- Licensed and pre-installed with Windows Server 2022 Standard English (36 cores) + 5 User-CALs
- Deployment: Windows Server 2019 LTSC Standard English (+ 10 add. Prinect Languages)
- ProSupport Plus for IT (39 months), 24/7 Mission Critical 4 hours
- Option: 5 years or 7 years ProSupport Plus, 24/7 Mission Critical 4 hours

#### Network Interface Card options:

The PowerEdge R450 comes with two 1GbE ports and an OPC NIC with two 10GbE ports. To connect the PowerEdge R450 Server to a fiber-based 10Gb network environment, order the optional Broadcom 57412 dual port 10GbE SFP+ network interface card.

**Prinect product assignment:**

This server is released for one of the following Prinect applications

- Labelfire Workflow Server
  - for more than one Labelfire
  - for more than one Labelfire and additional Prinect workflow components
- Labelfire All-In-One (AIO)
  - for Prinect Workflow with one Labelfire Renderer
  - Performance Plus: For Prinect Workflow with one Labelfire Renderer Performance Plus
- Production Manager for Labelfire
  - with max. one CtP Renderer
- High-end Prinect Workflow systems with extreme workload
- Labelfire Renderer with Performance Plus

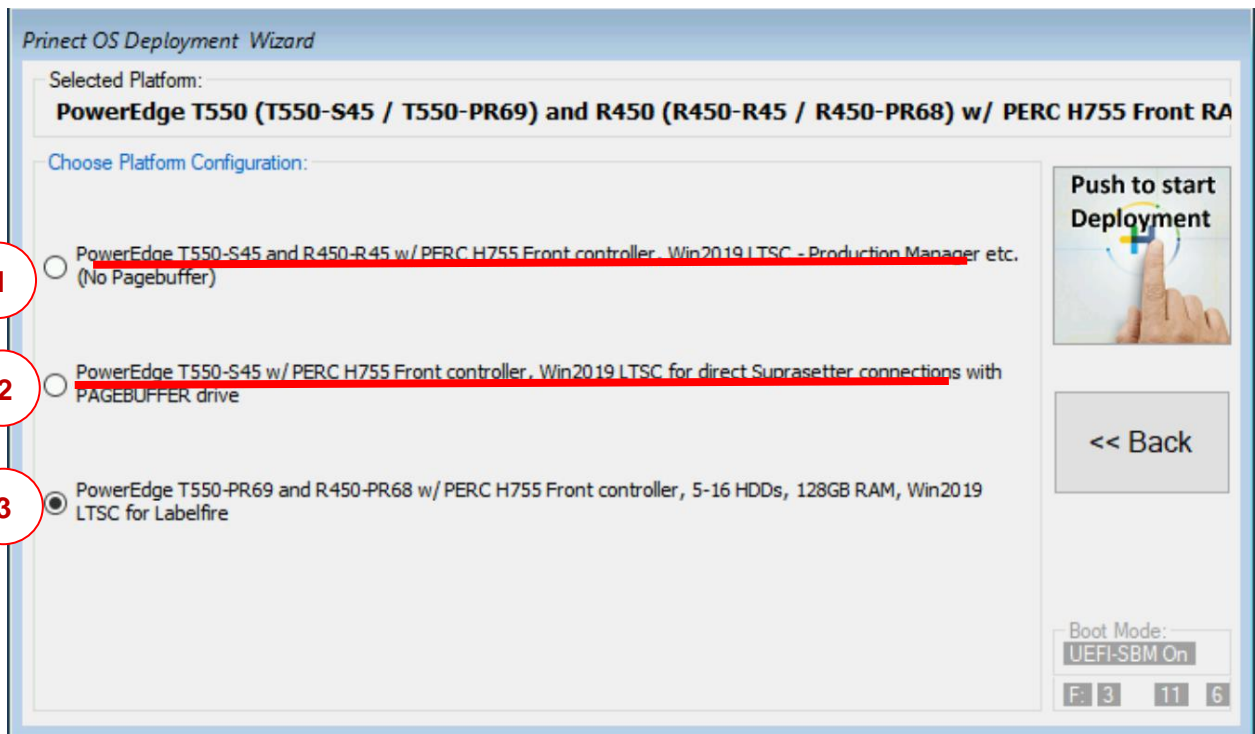
**Note:**

Server R450-PR68 has been tested and qualified for the configuration specified above. Only this minimum equipment guarantees sufficient Prinect functionality and allows conducting the automated deployment process described in section “Deployment Wizard – Overview and Usage”.

**The standard number of hard disks (5) must not be undercut when the server is ordered from Dell via the Global Portal.** However, more than five 1.2TB hard disks are not critical. The deployment wizard will be cancelled if the software detects **less** than the required number of hard disks!



**Deployment configuration options:**



2.) N.a. (T550-S45 & R450-R45 only)

3.) N.a. (T550-S45 only)

4.) Labelfire configuration for all Prinect products

Hard drive configuration:

- 5 up to 8 drives installed:
- 2 Virtual disks: BOSS RAID1 / PERC RAID5 (5-8 HDDs)
  - VD1: BOSS RAID1 (System drive)
  - VD2: PERC RAID5 128K stripe size, adaptive read ahead and write back cache (Data & Temp drive)

## 7.2 Server T550-PR69 (PP.222.0429)

High-end server in a tower chassis (same performance as R450-PR68). The server T550-PR69 is designed as Prinect workflow server for high performance environments like high-end Labelfire systems. It may also be used as external High-Performance Renderer Platform for high-end Labelfire Digital Presses.



### Specification:

#### DELL PowerEdge T550 Server Tower

- 2x Intel® Xeon® Gold 5220, 2.2 GHz, max Turbo 3.9 GHz, 18C/36T, 24.75 MB Cache, 2 UPI 10.4GT/s, 125W TDP
- 128GB (8x 16GB) DDR4 dual rank RDIMMs
- BOSS (Boot Optimized Server Storage) controller card with 2x 240GB M.2 (RAID1)
- PERC H750 RAID controller, 12GBps SAS (for internal data disks)
- 16 hot-swap disk bays 2.5"
- 5x 1.2TB SAS 2.5" 10k hot-plug hard disks (RAID 5)
- Option: Additional 1.2TB SAS 2.5" disk(s)
- 9 PCIe 3.0 slots (2 CPU configuration)
- USB 3.0 support (one front, four rear USB3 connector)
- Onboard Broadcom dual port 10GbE Base-T LOM
- Broadcom 5720 2-port 1GbE Base-T NIC
- Option: Broadcom 57412 dual port 10GbE SFP+ NIC
- internal SATA DVD-ROM drive
- iDRAC9 Enterprise
- Keyboard and mouse
- Redundant hot-plug power supplies (1+1): 2x 750W, voltage auto ranging
- Licensed and pre-installed with Windows Server 2022 Standard English (36 cores) + 5 User-CALs
- Deployment: Windows Server 2019 LTSC Standard English (+ 10 add. Prinect Languages)
- ProSupport Plus for IT (39 months), 24/7 Mission Critical 4 hours
- Option: 5 years or 7 years ProSupport Plus, 24/7 Mission Critical 4 hours

### Network Interface Card options:

The T550-PR69 comes with two 10GbE Base-T onboard LOM ports and two 1GbE ports on a separate network interface card. To connect the PowerEdge T550 Server to a fiber-based 10GbE network environment, order the optional Broadcom 57412 dual port 10GbE SFP+ network interface card.

### Product assignment:

This server is released for one of the following Prinect applications

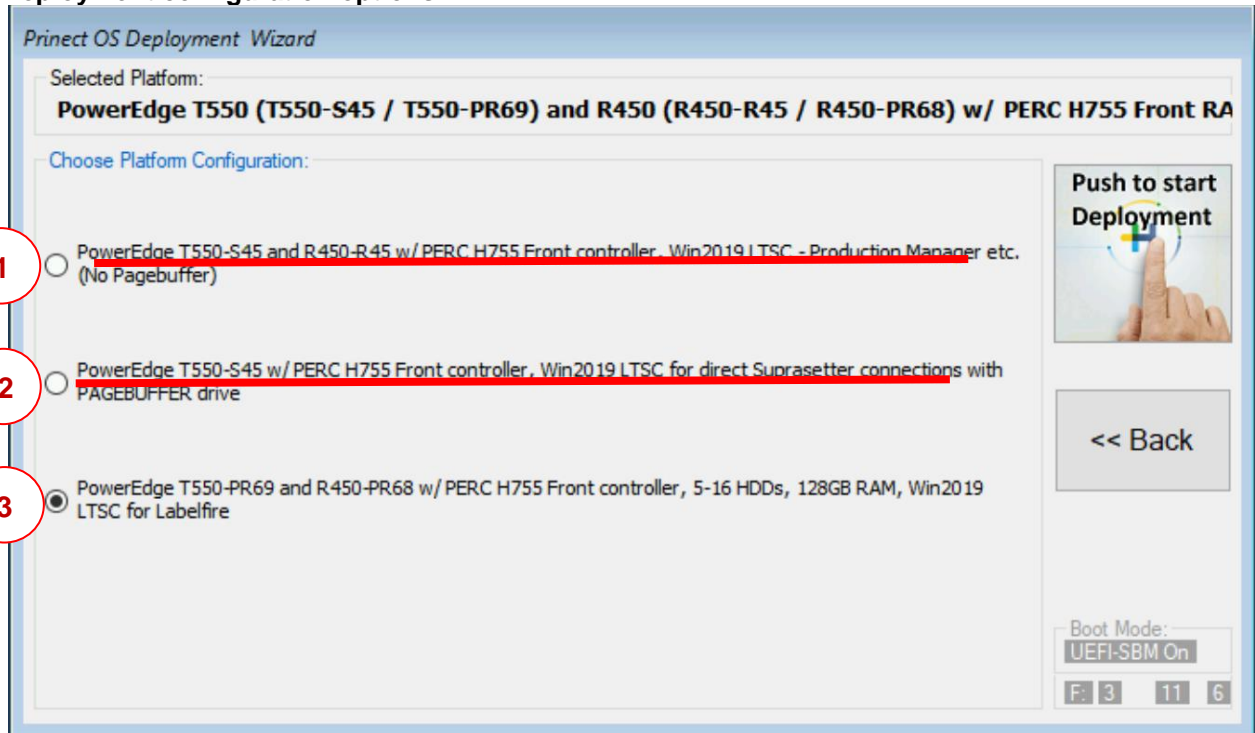
- Full Prinect Workflow System for
  - Labelfire High-end All-In-One with integrated High-Performance Renderer (One Labelfire press only)
  - Labelfire with external High-Performance Renderer (more than one Labelfire press)
  - High-End Prinect Workflow systems with extreme workload
- External High-Performance Renderer (High-end) for Labelfire

Server T550-PR69 has been tested and qualified for Prinect in the configuration specified above. Only this minimum equipment guarantees sufficient Prinect functionality and allows conducting the automated deployment process described in section "Deployment Wizard – Overview and Usage".

**The standard number of hard disks (5) must not be undercut when the server is ordered from Dell via the Global Portal.** However, more than five hard disks are not critical. The deployment wizard will be cancelled if the software detects **less** than the required number of hard disks!



Deployment configuration options:



2.) N.a. (T550-S45 & R450-R45 only)

3.) N.a. (T550-S45 only)

4.) Standard Prinect configuration for all Prinect products.

Hard drive configuration:

- 5 up to 16 drives installed:
- 2 Virtual disks: BOSS RAID1 / PERC RAID5 (5-16 HDDs)
  - VD1: BOSS RAID1 (System drive)
  - VD2: PERC RAID5 128K stripe size, adaptive read ahead and write back cache (Data & Temp drive)
- One Hot Spare if more than 9 drives installed

## 8. Assignment to Prinect Software

Prinect Software	Released Platforms								
	Servers							Workstation	
	T550 -S45	R450 -R45	T350 -S20	R350 -R20	T150 -S12	T350 -WT7	R350 -WR7	T3660 -C11	XE3 -C33
<b>Production Manager</b>	✓	✓							
<b>Production Manager One Box</b>									
online with Suprasetter up to 106			✓ <sup>5)</sup>						
offline (via Prinect Shooter)			✓	✓					
<b>Full Integrated Prinect System with any combination of:</b>									
- Integration Manager									
- Prepress Manager incl. Renderer and/or integrated Automatic Paper Stretch Compensation	✓	✓							
- Pressroom Manager									
- Postpress Manager									
- Digital Print Manager									
<b>Prepress Manager (incl. Renderer)</b>	✓	✓	✓	✓					
with Digital Print Manager	✓	✓	✓	✓					
with output via Shooter	✓	✓	✓	✓					
with Archiver Pro	✓	✓							
with integrated Automatic Paper Stretch Compensation (offline)	✓	✓							
<b>online</b> with Suprasetter up to 106	✓ <sup>1) 5)</sup>		✓ <sup>5)</sup>						
<b>Prinect One Box</b>									
<b>online</b> with Suprasetter up to 106			✓ <sup>5)</sup>						
<b>online</b> with Suprasetter A52-A106					✓ <sup>5)</sup>				
offline (via Prinect Shooter)			✓	✓	✓				
<b>Stand-alone Renderer</b>									
<b>online</b> with Suprasetter up to 106			✓ <sup>5)</sup>					✓ <sup>5)</sup>	
<b>online</b> with Suprasetter A52-A106					✓ <sup>5)</sup>			✓ <sup>5)</sup>	
offline (via Prinect Shooter)			✓	✓	✓			✓	
<b>Shooter with Suprasetters incl. VLF</b>			✓ <sup>4) 5)</sup>		✓ <sup>5)</sup>			✓ <sup>5)</sup>	
<b>Portal Server</b>	✓	✓	✓	✓					
<b>Pressroom Manager</b>			✓	✓					
standalone					✓				
without Scheduler								✓	
<b>Business Manager</b>									
Business Manager Server			✓	✓					
Business Manager Client									✓
<b>Datacenter Server</b>			✓	✓					
<b>Web2Print Server (Pageflex server)</b>			✓	✓					
<b>Maintenance Center standalone</b>			✓ <sup>4)</sup>	✓ <sup>4)</sup>	✓				✓
<b>License Server standalone</b>			✓ <sup>4)</sup>	✓ <sup>4)</sup>	✓				✓
<b>Terminal Server for Wallscreen</b>						✓ <sup>2)</sup>	✓ <sup>2)</sup>		
<b>Terminal Server for PDF Inspection</b>						✓ <sup>2)</sup>	✓ <sup>2)</sup>		
<b>Automatic Paper Stretch Compensation (APSC) standalone</b>			✓	✓				✓	

Prinect Software	Released Platforms								
	Servers							Workstation	
	T550 -S45	R450 -R45	T350 -S20	R350 -R20	T150 -S12	T350 -WT7	R350 -WR7	T3660 -C11	XE3 -C33
Production Cockpit									✓
Signa Station									✓
Mobile Webservice									✓
PDF Toolbox									✓
Color Toolbox									✓
Calibration Toolbox									✓
Prepress Interface Client								✓	
Prepress Interface Server			✓	✓				✓	
Package Designer									✓
PDF Inspection Toolbox									✓
Prinect Web Shop DFE									✓
Suited for Suprasetter PCIe Speedway & LAN Interface Set	✓ <sup>5)</sup>		✓ <sup>5)</sup>		✓ <sup>5)</sup>			✓ <sup>3)5)</sup>	

Table 3: Prinect Software Assignment

- 1) For use as server with direct Suprasetter connection, an additional SAS disk as PAGEBUFFER disk is recommended.
- 2) These systems are defined for the use as Terminal Servers for PDF Inspection Toolbox and Wallscreen Application. The configuration includes Remote Desktop Services Client Access Licenses for five users.
- 3) Please note that old PCI Speedway interface cards (PCI4GEN3, GIPB) require a 64-bit PCI-X slot to drive a Suprasetter (see SI PT.000.1182-000S10) due to performance reasons. This old technology is not supported anymore by current systems. This workstation is only released for **PCIe** Speedway interface cards (GIEB-2, GIEB PCI-E).
- 4) If hardware redundancy (RAID, power supply) is needed
- 5) **Check Suprasetter Container software OS compatibility**, please refer to Table 5: Minimum required Container software versions.

Prinect Software (Digital Print Workflow)	Released Platforms					
	Servers				Workstations	
	R450- PR68	T550 -PR69	T350 -S20	R350 -R20	T3660- C11	XE4-C34
Labelfire						
All-In-One (AIO)	✓	✓				
AIO Performance Plus	✓	✓				
Prinect Workflow / Production Manager Server	✓	✓				
Ext. Renderer Basic			✓	✓	✓	
Ext. Renderer Performance Plus	✓	✓				
Substrate Qualification						✓

Table 4: System assignment for Labelfire Workflows

## 9. Suprasetter OS compatibility

### Suprasetter OS compatibility: Minimum required container software versions

Device	Firmware OS	Loader Option	Windows 10 Pro 64 Bit	Windows Server 2019
<b>Suprasetter A52 / A75</b>				
Suprasetter A52 / A75 Gen1	VxWorks	ATL/DTL	4.05	4.10
Suprasetter A52 / A75 LT Gen3	VxWorks	ATL/DTL	7.18	7.18
Suprasetter A52 / A75 HT Gen3	VxWorks	ATL/DTL	7.17	7.17
Suprasetter A52 / A75 LT Gen5	Linux	ATL/DTL	11.04	11.04
Suprasetter A52 / A75 HT Gen5	Linux	ATL/DTL	11.03	11.03
<b>Suprasetter 106 / A106</b>				
Suprasetter 105 Gen2	VxWorks	SCL/MCL	9.72	9.76
Suprasetter A105 Gen1	VxWorks	SCL/MCL	9.73	9.75
Suprasetter 105 Gen4	VxWorks	SCL/MCL	12.06	12.06
Suprasetter NL 106 / A106 Gen4	VxWorks	ACL/DCL	22.16	22.16
Suprasetter NL 106 / A106 Gen5	Linux	APL/ACL/DCL	35.03	36.02
Suprasetter NL 106 / A106 Gen6	Linux	APL/ACL/DCL	36.01	36.02
Suprasetter NL 106 UV (Lüscher)	VxWorks	ACL/DCL	22.16	22.16
Suprasetter NL 106 UV (HD/LU)	Linux	APL/ACL/DCL	35.03	36.02
<b>Suprasetter 145 / 162 / 190</b>				
Suprasetter 145 / 162 / 190	Linux	APL/ACL	3.04	3.08

Table 5: Minimum required Container software versions

#### Notes:

As of today, Remote Service is only running with *the* local Administrator account

Prinect Maintenance Center cannot be installed on systems with any directly connected Suprasetter.

Please mind the new installation instructions: Use a user with administrative privileges instead of the Administrator to install the Container software.

## 10. Additional Components

### 10.1 Storage NX3240 (PP.222.0284)

Storage NX3240 is a high-end Network Attached Storage (NAS) box in a 2U rack mount chassis, based on the PowerEdge R740xd using Windows Storage Server operating system. It is well suited to be used in conjunction



with Prinect Archive System as the target media running the PAS host software on it. As standard, the unit includes 2x 600GB RAID1 internal FlexBay disk drives for the operating system as well as 16TB of data storage capacity on 4x 4TB disk drives organized as RAID5, optionally expandable up to 64TB (16x 4TB).

#### Specification:

DELL PowerVault NX3240, rack mount chassis with up to 16 3.5" hot-plug hard drives

- Intel Xeon Bronze 3204, 9.6GT/s, 1.9GHz, 8 MB Cache, 6C/6T, 85W TDP
- 16GB (2x 8GB) DDR4 RDIMM
- 2x 600GB SAS 12Gbps internal 10k 2.5" hot-plug hard drives, Flex Bay
- 4x 4TB near line SAS 12Gbps 7.2k 512n 3.5" hot-plug hard drives (optionally up to 16x 4TB HDDs)
- PERC H730P integrated RAID controller, 2GB NV Cache
- Broadcom 57416 2x 10GbE BT & BC5720 2x 1GbE BT network daughter card
- Dual, hot-plug, redundant power supply (1+1) 750W
- iDRAC9 Enterprise, integrated Dell Remote Access Controller
- ReadyRails sliding rails with cable management arm
- Windows Storage Server 2016 Standard Edition
- UEFI BIOS setting
- 36 months ProSupport 24/7 4hr mission critical

### 10.2 Storage NX440 (PP.222.0313)

Storage NX440 is an entry-level Network Attached Storage (NAS) box in a 1U rack mount chassis



based on Windows Storage Server operating system leveraging the PowerEdge R340 Server technology. It is suited to be used in conjunction with Prinect Archive System as the target media running the PAS host software on it. The unit includes 4x 1TB hot-plug disk drives organized as RAID5.

#### Specification:

DELL PowerVault NX440, rack mount chassis with 4x 3.5" hot-plug hard drives

- Intel Xeon E-2100 Family CPU
- 2x 4GB UDIMM ECC
- 4x 1TB SATA 7.2k 3.5" hot-plug hard drives
- PERC H730P integrated RAID controller
- On-Board LOM 1GbE dual port
- Hot-plug redundant power supply 350W
- iDRAC9 Enterprise, integrated Dell Remote Access Controller
- ReadyRails sliding rails with cable management arm
- Windows Storage Server 2016 Workgroup Edition
- Internal SATA DVD ROM drive
- 39 months ProSupport 24/7 4hr mission critical

### 10.3 Hardware Add-ons

A couple of add-ons like additional hard disk drives, additional memory, network boards etc. may be found on DELL's Global Portal. They can be ordered **as options together with the server or workstation system.**

For entering the configurator please select the „Customize & Buy“ option next to the respective platform in the “Global Standards” section.

#### Standard Configurations

Heidelberger Druckmaschinen - Global Portal+

Search by product name, type, category and more.  All Categories

1 USD = 0.858295425 EUR

Name	Product	Category	Price
Workstation XE3-C33 (PP:222.0296)	OptiPlex XE3	Workstations	727,09 €
Quick Specs <span style="float: right;">Customize &amp; Buy Add to Cart</span>			
Workstation T3640-C9 (PP:222.0372)	New Precision 3640 Tower Workstation	Workstations	1,075,09 €
Quick Specs <span style="float: right;">Customize &amp; Buy Add to Cart</span>			
Storage NX440 (PP:222.0313)	PowerVault NX	Storage	1,340,18 €

### 10.4 Service Level Agreements

As a default, each Prinect Qualified DELL System is bundled with a standard service level agreement:

- **Servers:** “ProSupport and Mission Critical 4Hr, 39 Month(s)”
- **Workstations:** For Shooter systems “3 Year ProSupport with 4HR 7x24 In-Home/Onsite Service After Remote Diagnosis” and “3 Years ProSupport with Next Business Day Onsite Service” for other workstations.

On demand, these service agreements may be downgraded or upgraded to a certain extent. Support can be upgraded to ProSupport Plus or support can be downgraded to the basic level. Sometimes this is requested in order to provide a consistent level for the entire environment at a customer’s site. Service downgrades resp. upgrades can be selected in the system configurators like add-on components as described above.

#### Indirect Dell countries

Dell can provide the bundled services in their “Direct Countries” only, that is, in all countries where Dell is represented with own sales and service organizations.

In “Indirect Markets” where Dell doesn’t have own representations, hardware services are provided by Dell partner companies. Usually, these partners do not guarantee the same standard support levels that have been described above. Instead, they will offer separate, individual service contracts to their customers. In order to avoid double payment for services, systems ordered from Heidelberg SSUs in indirect Dell countries should be downgraded to just a basic support level. This selection can also be found in the configurators.

Example from a PowerEdge server configurator:

Dell Services:  
Extended Service

Basic Next Business Day, 39 Month(s) + 0,00 €

ProSupport and 4Hr Mission Critical, 39 Month(s) **Included in price**

Years  and Months  Price varies by Hardware & OS selections

Prosupport Plus and 4Hr Mission Critica, 39 Month(s) + 0,00 €

Please find the lists of Dell’s indirect markets under the following links:

<http://www1.euro.dell.com/content/topics/topic.aspx/emea/contact/edb/index?c=eu&l=en&s=bsd>

[http://www1.ap.dell.com/content/topics/topic.aspx/ap/topics/contacts/en/sadm\\_contacts?c=ap&l=en&s=gen](http://www1.ap.dell.com/content/topics/topic.aspx/ap/topics/contacts/en/sadm_contacts?c=ap&l=en&s=gen)



#### Note:

**If you request a quotation from your Dell dealer in an indirect Dell country, please make sure to change the standard configuration to the lowest possible support level.**

Otherwise, you will pay twice, once for the bundled standard service level and once again for the individual service contract offered by the local Dell distributor.

## 10.5 Monitors

All standard system configurations (servers and workstations) do not include a monitor. On demand, an appropriate display must be ordered separately from the Global Portal's Standard Configurations. Following monitor types are offered:

- Dell 19" standard monitor **P1917S** (PP.222.0246)  
 Panel: IPS, screen ratio: 5:4  
 Connectors: VGA, HDMI 1.4, Display Port 1.2; 2x USB 3.0 & 2x USB 2.0 ports  
 Resolution: 1280x1024 @ 60Hz  
 Tilt, swivel, pivot and height adjustable stand
- Dell 23" wide monitor **P2319H** (PP.222.0295)  
 Panel: IPS, screen ratio 16:9  
 Connectors: VGA, HDMI 1.4, Display Port 1.2; 2x USB 3.0 & 2x USB 2.0 ports  
 Resolution: 1920x1080@60Hz  
 Tilt, swivel, pivot and height adjustable stand
- Dell 24" wide monitor **P2422H** (PP.222.0428)  
 Panel: IPS, screen ratio 16:9  
 Connectors: VGA, HDMI 1.4, Display Port 1.2; 1x USB 3.0 upstream, 4x USB3 "Superspeed" ports  
 Resolution: 1920x1080@60Hz  
 Tilt, swivel, pivot and height adjustable stand
- Dell 27" UltraSharp wide monitor with PremiumColour **U2722D** (PP.222.0393)  
 Panel: IPS (high-end), screen ratio 16:9  
 Connectors: 1x HDMI 1.4, 1x DisplayPort 1.4, 1x DP out; 1x USB-C (USB 3.2 Gen2, 10Gbps) upstream (data only), 2x USB-A (USB 3.2 Gen2, 10Gbps) downstream, 1x USB-A (USB 3.2 Gen2, 10Gbps) with B.C 1.2, 1x USB-C (USB 3.2 Gen2, 10Gbps, up to 15W charging) downstream; 1x Analog 2.0 audio line out  
 Resolution: 2560x1440@60Hz  
 Color Gamut: 100 % AdobeRGB2, 100 % sRGB, 100 % REC709, 98 % DCI-P3 (delta E < 2)  
 Tilt, swivel, pivot and height adjustable stand; 1.8m DP-to-DP cable included. Please note that this monitor cannot be connected to a server system due to its missing VGA connector.
- Dell 42.5" UltraSharp monitor **U4320Q** (PP.222.0365)  
 Panel: IPS, screen ratio 16:9  
 Connectors: 2x HDMI 2.0, 1x Display Port 1.4, 1x USB Type-C (alt. Mode with DP 1.4; USB 3.1 Upstream, Power Delivery up to 90W), Audio Line out, 2x USB A (USB 3.1 Gen1, 5Gbps), 1x USB 3.1 /w charging Adaptability (max 2A), 1x USB Type-C Downstream (15W, USB 3.1 Gen1, 5Mbps)  
 Resolution: 4k: 3840x2160@60Hz  
 Tilt, swivel, pivot, height adjustable stand, VESA mounting kit

These monitors are listed as line items in the "Standard Configurations":

Name	Product	Category	Price
Heidelberger Druckmaschinen - Global Portal+			
Dell 19 Monitor P1917S (PP.222.0246)	Dell 19 Monitor   P1917S	Monitors	329,14 €
<a href="#">Quick Specs</a>		<a href="#">Customize &amp; Buy</a>   <a href="#">Add to Cart</a>	
Dell 23 Monitor - P2319H (PP.222.0295)	P2319H Monitor	Monitors	319,99 €
<a href="#">Quick Specs</a>		<a href="#">Customize &amp; Buy</a>   <a href="#">Add to Cart</a>	
Dell UltraSharp 27 Monitor- U2722D (PP.222.0393)	Dell UltraSharp 27 Monitor	Monitors	1.049,99 €
<a href="#">Quick Specs</a>		<a href="#">Customize &amp; Buy</a>   <a href="#">Add to Cart</a>	
Dell 43 Monitor - U4320Q (PP.222.0365)	Dell UltraSharp 43 4K USB-C Monitor	Monitors	2.119,99 €
<a href="#">Quick Specs</a>		<a href="#">Customize &amp; Buy</a>   <a href="#">Add to Cart</a>	

## 11. Deployment Wizard – Overview and Usage

### 11.1 How to create the Prinect Deployment Wizard bootable USB flash drive

In order to easily load operating system and configuration onto Prinect Qualified DELL Systems, Heidelberg offers the Deployment Wizard. The current version is based on the systems' portfolio specified above.



**Note that the Deployment Wizard is only for use by Heidelberg service staff. For legal reasons, do NOT leave the Deployment flash drive at the customer site!**

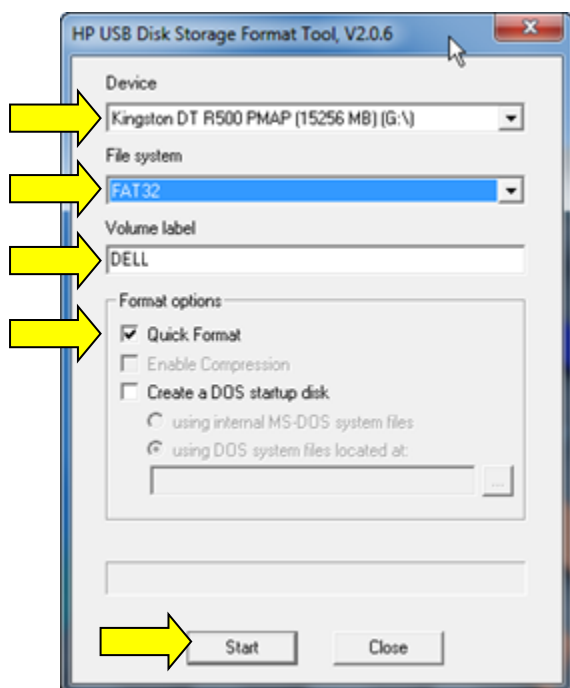
#### How to create the bootable Deployment USB Stick:

The “**HP USB Disk Storage Format Tool**” is a freeware application that allows you to format a USB flash drive from a GUI. It partitions, formats, sets the active-bit, and installs a proper Master Boot Record (MBR). You can also do all this with the Windows OS build-in *diskpart* command line tool, but the HP utility makes it easy. The version 2.2.3 (or higher) is able to format USB flash drives larger than 32GB using the FAT32 file system.

- If your computer is a **Heidelberg Client version 5**, please request the installation of the package **HC5T\_USB\_Stick\_Prep\_v223\_ENG** from Heidelberg User Software Service (USS) or from your local IT department. **Please note that this package is not compatible with Heidelberg Client v6!**
- If your computer is **not** a Heidelberg Client, please download the HP freeware application **HPUSBFW.EXE** from the corresponding Heidelberg FTP-server section “/ctp\_prinect/se\_download/DELL/Deployment...” to your local computer. Please note that it is required to run this tool with **administrative permissions!**

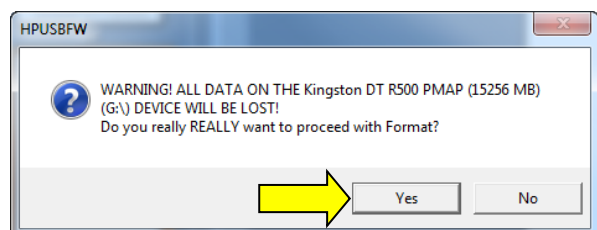
After you prepared the USB flash drive as pictured below, all you have to do is copy the Deployment contents directory to the flash drive.

- Attach an **USB flash drive (USB Stick)** of **at least 32 GB** capacity and use HPUSBFW.EXE/ HC5T\_USB\_Stick\_Prep\_v223\_ENG to format it and to make it bootable. It is recommended to use an USB3 flash drive due to performance reasons.



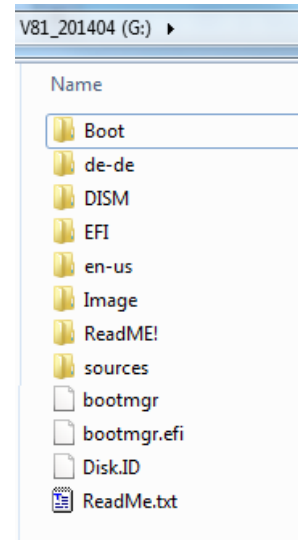
- Start the utility:  
Ensure the correct USB flash device is selected!
  - Ensure **FAT32** is the selected file system.
  - Enter a descriptive Volume Label such as HDDEPLOY (use max. eight characters).
  - Select “**Quick Format**”.
  - Click “**Start**” and confirm the task

This procedure does nearly ALL the work. It formats the drive, installs a Master Boot Record (MBR) and sets the partition’s “Active” bit in order to make the stick bootable.



**Note:** It may happen that you receive an error message that the flash drive cannot be formatted or accessed. This may happen sporadically, especially on HEIDELBERG clients. Just retry the operation or re-attach the USB flash drive to your computer will overcome this issue in most cases.

- Download all files of the RAR-Archive from the corresponding Heidelberg FTP-server section “/ctp\_prinect/se\_download/DELL/Deployment...” to your local computer. Be sure to select the version corresponding to your DELL platform; refer to chap. “Systems Overview”.
- Double click on the \*.exe file of the RAR-Archive in order to open it. Browse to your desired local destination folder. Click “Install” to start self-extraction of the archive. This will copy the Deployment Wizard files and folders to the destination folder.
- Copy the files and folders contained in the destination folder (not the folder itself!) to the USB flash drive. Your USB flash drive then should contain the following files and folders on the root:
  - Write protect the USB flash drive, if possible.



**All systems with directly connected Suprasetter:** Please check your Container software version for OS compatibility with Windows 10 resp. Windows Server 2019!

**Note:**

Older deployment wizard versions supporting legacy Prinect Qualified DELL Systems are located on the Heidelberg Fileserver in the section “/ctp\_prinect/se\_download/DELL/Deployment/Old/...”

## 11.2 Prerequisites and Notes for the Deployment Wizard

The Deployment Wizard is a bootable USB Flash Disk tool that can load a (nearly) fully configured operating system onto a Dell computer. Typically, this is finished in less than 5 to 50 minutes in a state as tested by Heidelberg's Kiel Prinect R&D and Support departments. Beyond merely loading and configuring the OS, the wizard will partition, format, and label all drives in the manner as certified by Prinect R&D. On Dell server platforms, it will additionally configure the system's UEFI firmware (formerly known as BIOS) and automatically create and configure RAID arrays using Heidelberg's global standard recommendations.

- i. **It is only legal to use the Deployment USB-Stick if you have a valid DELL OEM Microsoft license for the operation system you want to deploy!**
- ii. **Verify the exact platform type:** The computer being deployed **must be** compliant to a Dell Heidelberg global standard platform. That is, only the "**Prinect Qualified DELL Systems**" which have been configured and certified by R&D may be used, as the OS load is "image-based". The deployment Wizard will also work for slightly modified systems with **additional** hard disk drives, higher hard disk drive capacity, higher CPU speed (as long as the same CPU type is used), or bigger RAM size. But note that the deployment may fail if non-specified hardware components such as a different RAID controller are used. **You cannot use this USB stick to load any non-DELL platform or any other Dell system.** Also note that only the qualified DELL server and workstation configurations have been tested with Prinect.
- iii. Generally, if your selected DELL configuration calls for **hard drives to be added** to the base server configuration, they should be added **before** you deploy the server, and the wizard will configure them for you. If the required amount of installed hard drives for your platform configuration is undercut, the deployment wizard will display an according error message and quit. Additional drives can be freely added without difficulty.
- iv. The workstations' and servers' delivery condition directly after unpacking is ideal for deployment. It is recommended not to boot the pre-installed Windows operating system on the workstation or server.
- v. Please be aware that **the systems default boot mode must be set to UEFI**. The deployment will fail otherwise. You have to **verify the boot setting on server and client systems manually** (note: all Prinect qualified DELL systems ordered via the Dell Global Portal *should* be pre-configured for UEFI boot).
- vi. The **Deployment Wizard must be booted in UEFI boot mode!** On some systems that are configured for UEFI boot mode, it is possible to use the BIOS boot mode (aka "Legacy boot") from the boot menu while booting the Deployment USB flash drive. Deploying an UEFI-based system from a BIOS-booted flash drive is not possible. You will receive an according error message if you try to deploy a platform with UEFI boot strap from a BIOS-booted Deployment Wizard.
- vii. Please make sure that your computer is **connected to the network** to ensure proper network setup. Do not connect more than one network interface (e.g., do not yet connect a Suprasetter).
- viii. With the current version of the deployment wizard, it is required to have at least one existing virtual disk configured on servers prior to deployment. The initial RAID configuration from DELL will be overwritten. The required virtual disks will be completely configured by the deployment wizard according to the platform-dependent specification.  
Note: If you encounter this error, just start the deployment once again – a virtual disk should have been created in the first (unsuccessful) run of the wizard.
- ix. Ensure **no Flash Card readers or other USB devices publishing drive letters** (e.g., monitors featuring a USB multi-card reader) **are installed**. The deployment logic cannot handle phantom drives (letters with no media attached). Note that it will also **format any attached USB hard drive** (except the Deployment Wizard USB flash boot drive) and thumb drives as if they were part of the desired configuration! The Prinect OS Deployment Wizard USB flash drive (Deployment Wizard USB-Stick) is the only allowed exception.

Troubleshooting some of these (and other) issues is described in the section "Prinect OS Deployment Wizard FAQ and Troubleshooting".


### 11.3 Using the Deployment Wizard

The following steps describe how to use the Deployment Wizard on the new Dell computer:

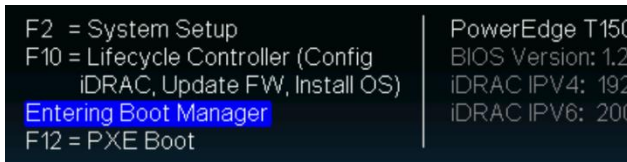
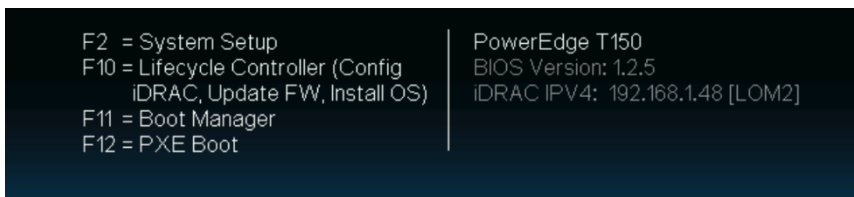
1. Insert the **Deployment Wizard USB Stick** and switch-on your DELL computer.

While your Dell computer powers up, watch the initial screen for the boot menu (usually in the upper right corner of the screen). When prompted to do so, press the appropriate key (<F11> for servers or <F12> for workstations) to access the boot menu.

Please note that the boot screen for our actual systems looks a little different than the boot screens shown below.

2. On **server systems**, press  to access the UEFI Boot Manager when prompted

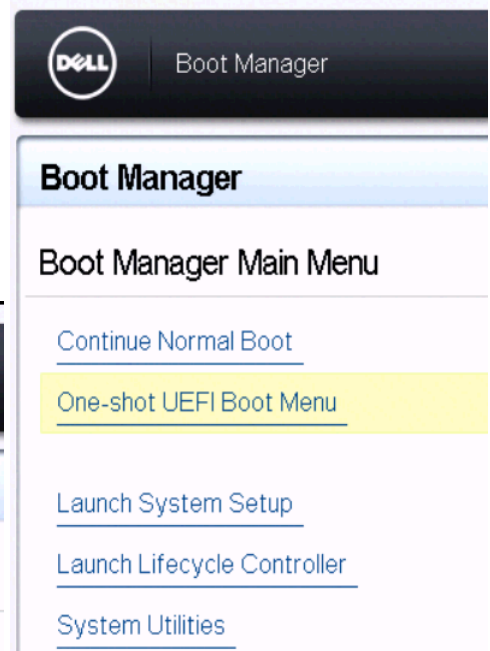
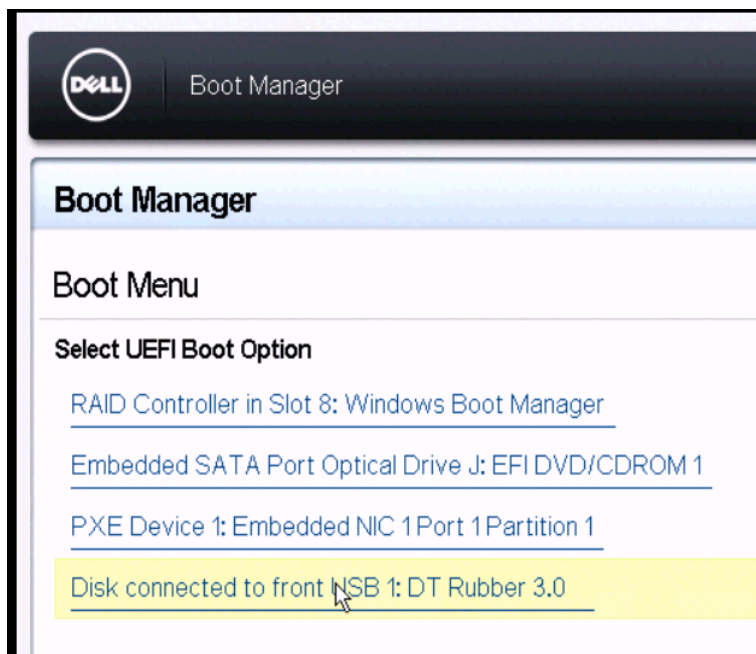
Note: It is required to set the boot mode to UEFI Boot before starting the deployment.



Press <F11> to start the Boot Manager if prompted.

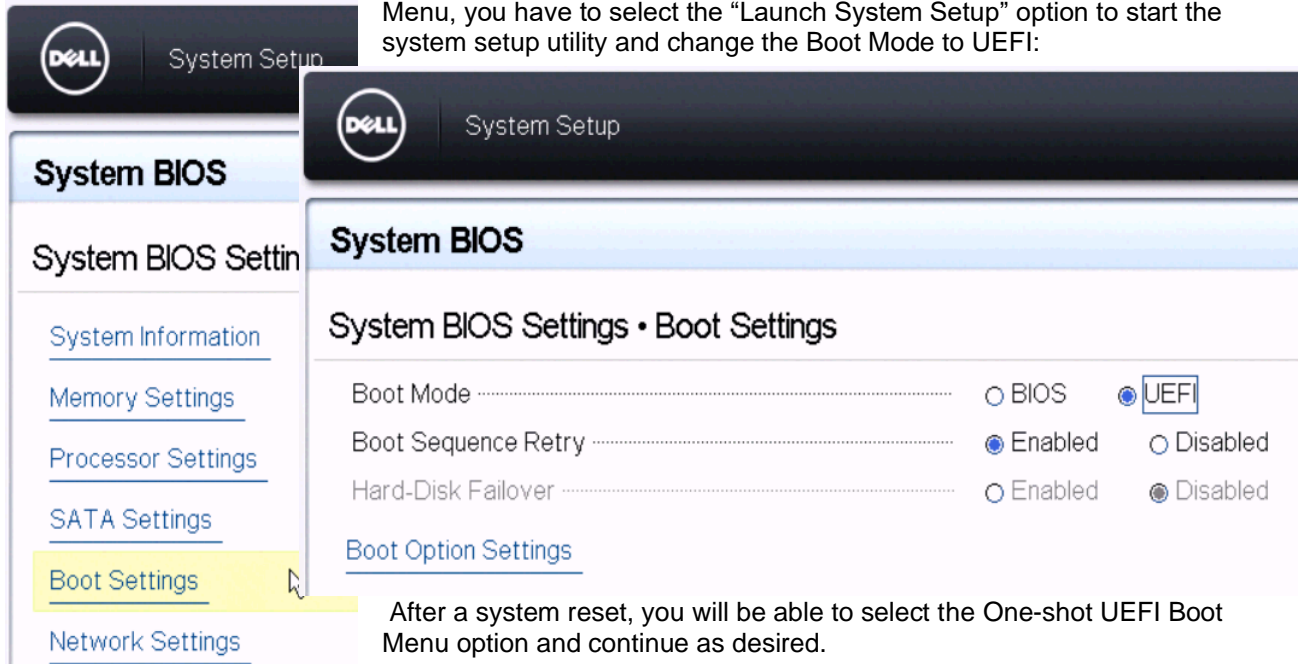
In the Boot Manager, select the “One-shot UEFI Boot Menu” option to display the available options.


Click or select the connected USB deployment flash drive as boot device and hit <enter>.



Now, the server starts to boot the USB Deployment Wizard.

**Note:** If the Boot Manager displays a “One-shot BIOS Boot Menu” instead of the required UEFI Boot Menu, you have to select the “Launch System Setup” option to start the system setup utility and change the Boot Mode to UEFI:



3. On **Client systems**, press  to access the Boot Menu.

Please note that you must press <F12> **immediately after you switched on** the computer. A text “Preparing one-time boot menu” appears (for a very short moment) in the upper right corner of the screen before the “One-Time Boot Settings” screen appears.

Select your attached Deployment Wizard USB flash drive (here: Kingston DT Rubber 3.0) as boot device and hit <enter> or click it (the mouse is working properly in BIOS setup). Now, the system starts to boot the USB Deployment Wizard.

**Note:** On client systems, you don’t have to worry about Boot Mode settings: Legacy (aka BIOS) boot is not supported on the actual systems any longer.



### One-Time Boot Settings

Control the boot flow for the SupportAssist OS Recovery Tool.

**NOTE:**

Once a system and/or admin password is set, the system will always prompt for system and/or admin password during boot.

#### UEFI Boot Devices

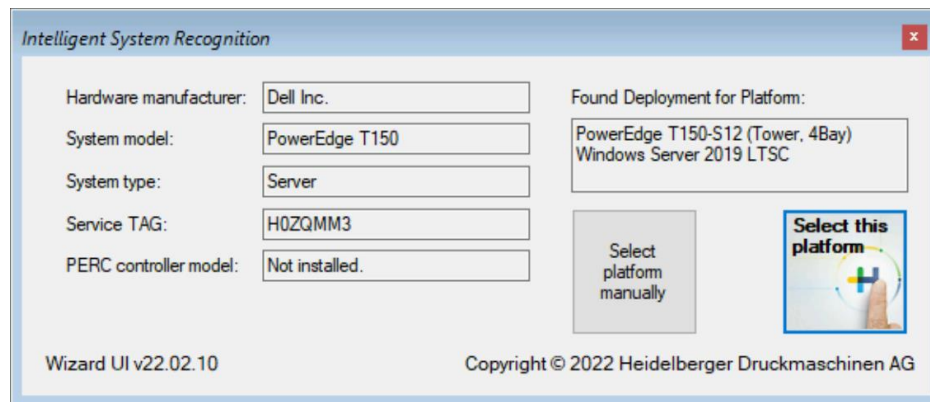
-  Windows Boot Manager
-  UEFI RST PM9A1 NVMe Samsung 512GB S6H3NX0RC42617
-  UEFI Kingston DT Rubber 3.0 00018F30C6AD6AC71C0000099
-  ONBOARD NIC (IPV4)
-  ONBOARD NIC (IPV6)
-  UEFI HTTPs Boot

- The Deployment Wizard starts booting WinPE 10 (based on Windows 10 x64) and starts the UI afterwards.



Note: The drive letter displayed in the lower right corner of the Window (here: D:) is the actual drive letter of the Deployment USB flash drive in the running operating system instance. In the lower left corner, you will see the software version of the User Interface (**not** the software version of the Deployment Wizard).

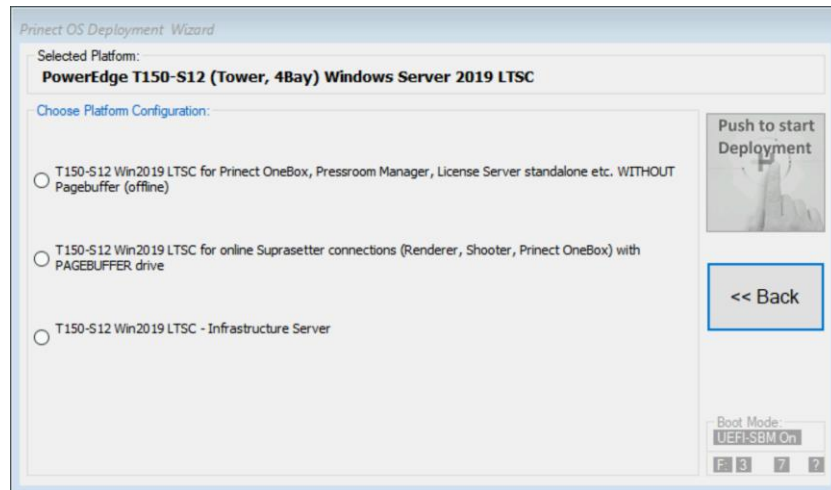
- Finally, the new **Deployment Wizard UI** with “**Intelligent System Recognition**” (ISR) comes up, showing you the matching DELL system that has been detected by ISR:



- If you click on “Select this platform”, you will end up by the well-known configuration selection window for the according platform. If only one configuration is available for the detected platform, it comes up pre-selected and you only have to click the “push to start Deployment” button:



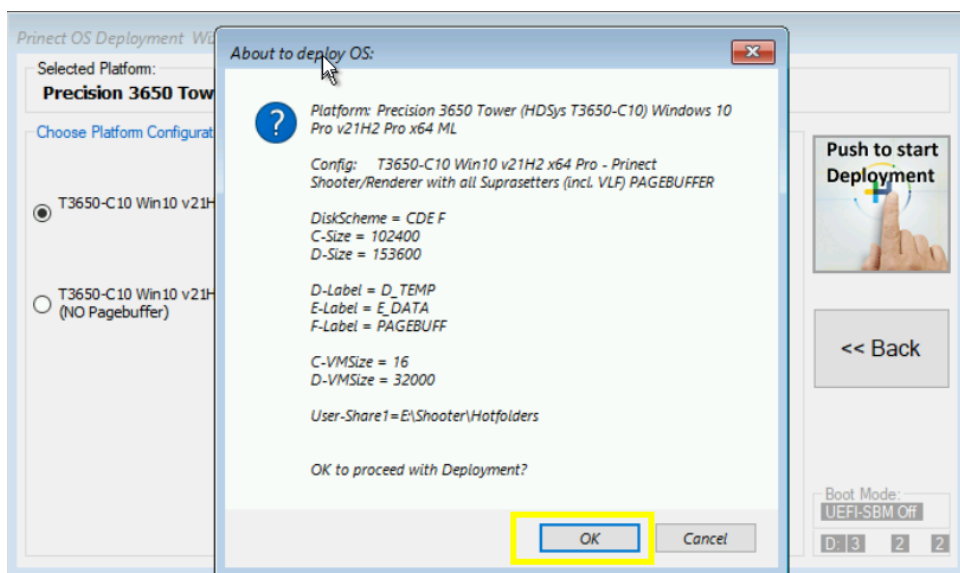
If more than one configuration is available for the detected platform, the configuration selection window appears without a selection.



Please select the desired configuration for the detected platform to activate the “Push to start Deployment” button.

#### 7. And now **start the deployment**

Clicking on the colorful “Push to start Deployment” button triggers a short verification check: It is only possible to deploy an UEFI system from a UEFI-booted Deployment Wizard (the boot environment configuration will fail otherwise).



If the verification succeeded, the deployment will start immediately after you clicked “OK”.

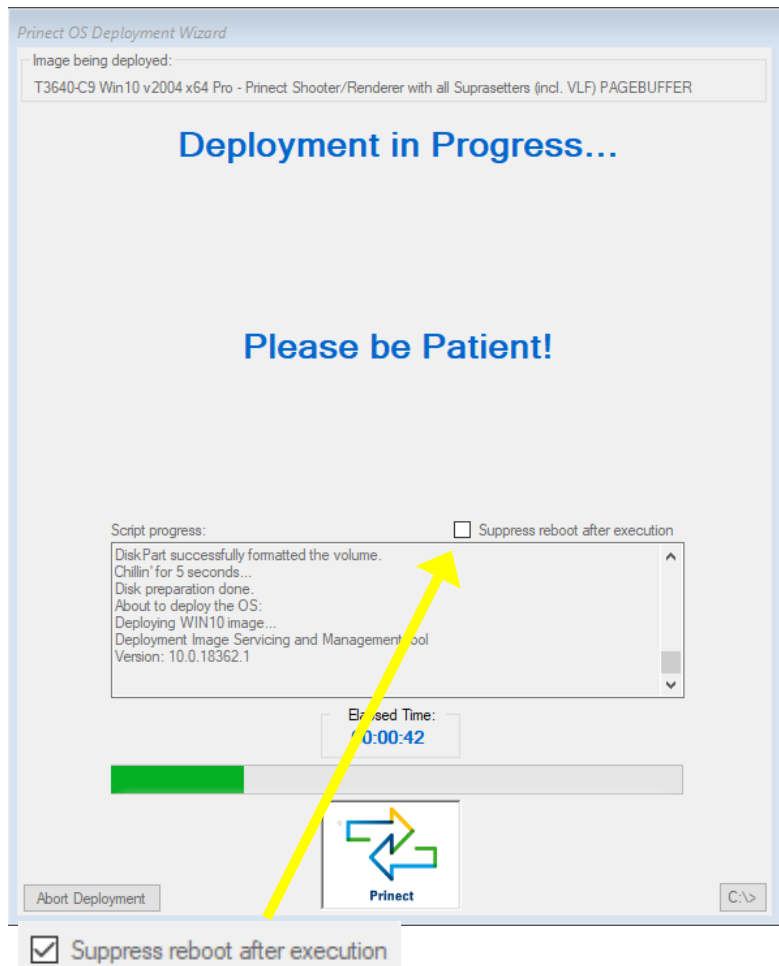
## 8. Watching the Deployment progress

The deployment progress is displayed in the script progress window, giving you the possibility to monitor the steps executed by the deployment script.

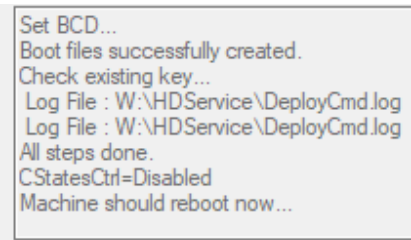
On systems with a fast USB3.0 flash drive connected to a USB 3.0 port; this step typically lasts about 4 to 45 minutes.

If the data have been written to the system's hard disk, the Deployment wizard forces a reboot (**note:** Especially on server systems, this might take some time even after all windows have been closed and the display is blank – just be patient).

Note: Normally, you will see an error message popup window if the deployment fails, giving you the chance to check the script output for errors. If for any reason you have not been able to catch the script output because the system reboots automatically, it is possible to suppress the reboot by checking the according box.



Hint: A log file is available at the location W:\HDService\DeployCmd.log resp. X:\DepDir\DeployCmd.log.

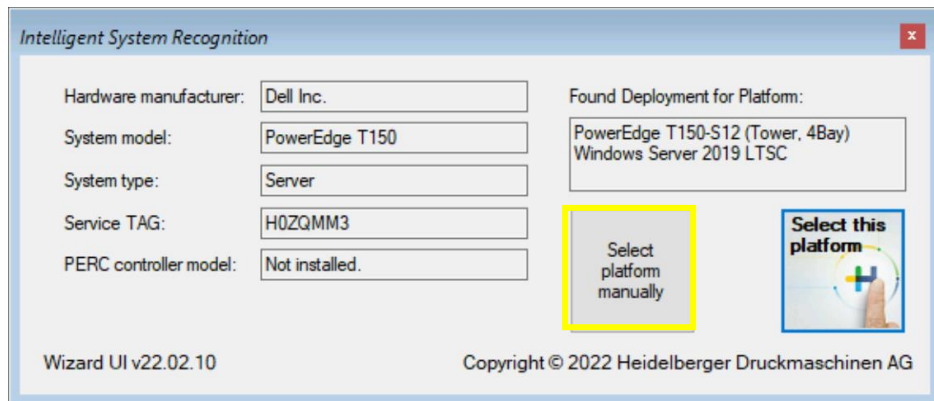


Note: Configuration steps done by the Deployment Wizard in this step

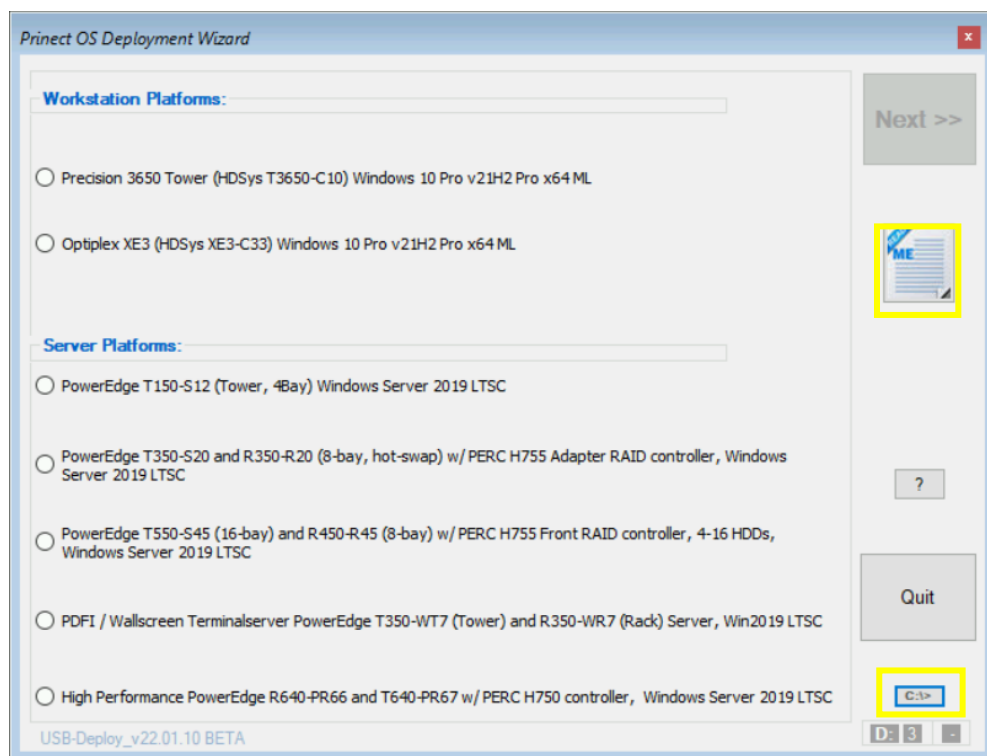
- i. Firmware configuration (UEFI, formerly known as "BIOS"), if applicable
- ii. Server systems with RAID controller only: RAID configuration
- iii. (Physical or logical RAID) hard disk configuration
  - a. Clean all disks
  - b. Convert disk to GPT
  - c. Create system partitions
  - d. Format system partitions
- iv. Deploy system image to system drive
- v. Copy additional HD deployment files to system drive
- vi. Create boot environment
- vii. Reboot.

8. Add-on: **Manual selection of platforms** and configurations.


If for any reason the ISR does not recognize your system or you want to select the desired platform and configuration manually, click on “Select platform manually”:



This starts the well-known Deployment Wizard UI. Please note that the pictures below are for explanation purposes only. Your USB flash drive may not contain these platform choices, only the currently supported Dell platforms will be listed here:

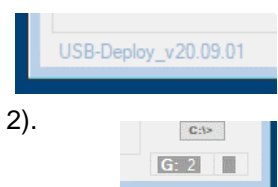


You will see two sections, the first one covers the client workstations and the second one the server systems.

This Readme document can be opened by clicking the according  icon, a command prompt window can be started by clicking the icon

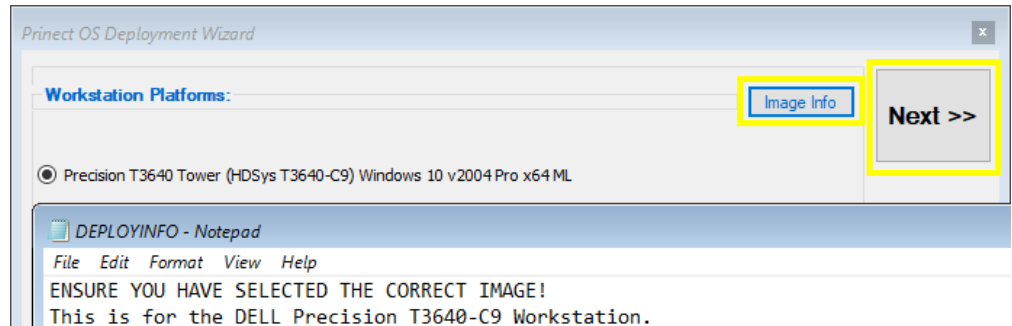


Note: The lower left corner displays the Deployment Wizard version, the lower right corner contains some internal debug information like the actual drive letter of the deployment flash drive (here: G:) and some internal IDs (here: 2).



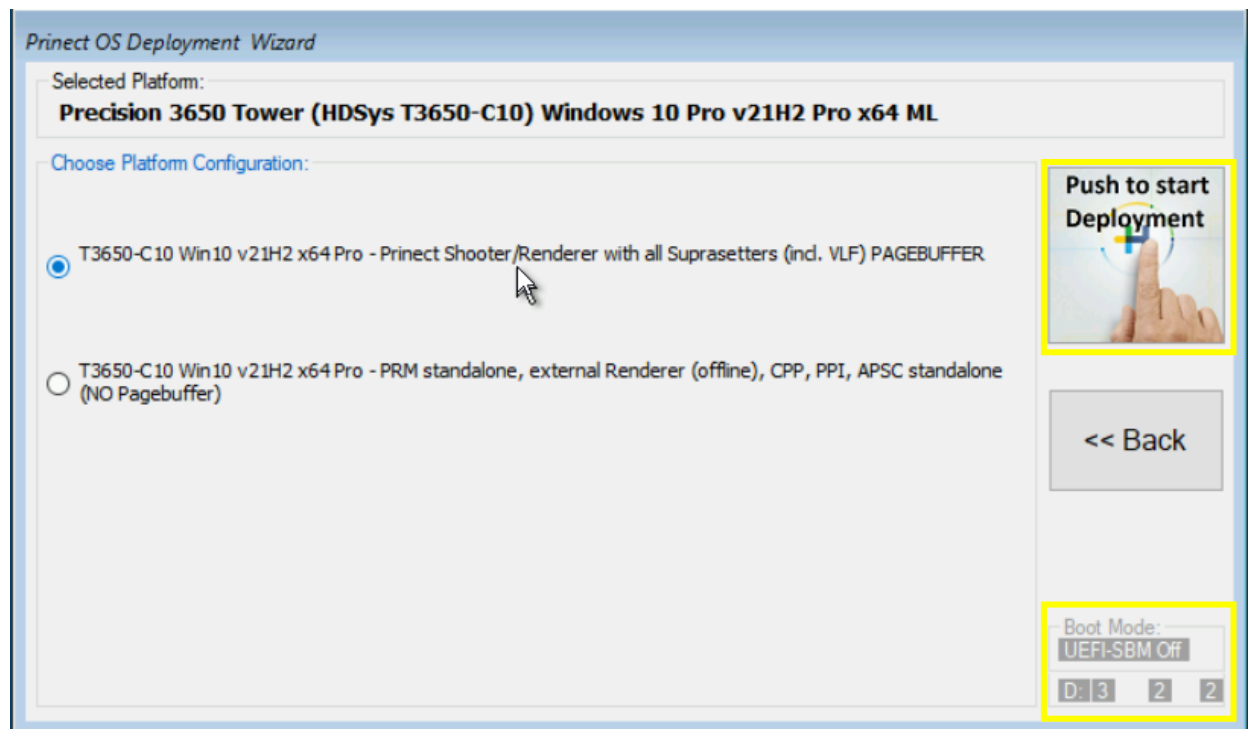
### Selecting the platform for deployment

After selecting the target platform, the “Image Info” button to display further platform image details is activated, as well as the “Next” button that opens the platform variant window.



### Selecting the platform configuration variant for deployment

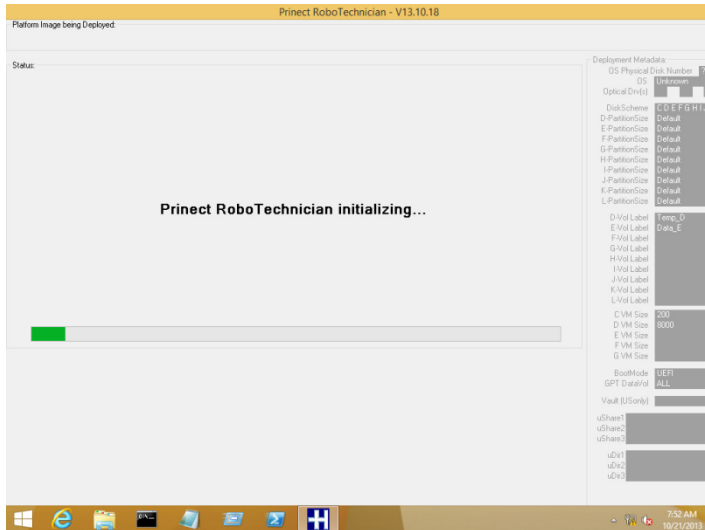
Now it's time to select the configuration variant for the selected platform. After activating a configuration, the Deploy button gets activated and the deployment can be started by clicking on it.



Note: Again, there will be some debug information displayed in the lower right corner: The Deployment flash drive's current boot mode will be displayed in the first row (here: UEFI Boot mode without secure boot). The second row shows the Wizard's drive letter (here: D:), and some numbers referring to internal IDs.

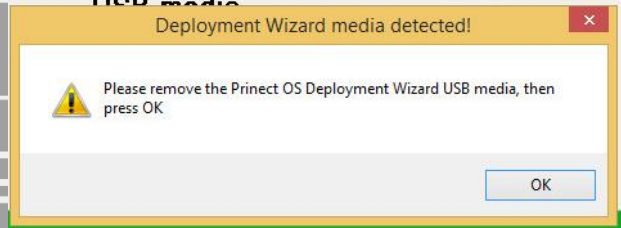
## 11.4 Post Deployment steps

After the system comes up, some basic installation steps will be performed (as defined by the sysprep command file), and the system reboots again automatically. You will be logged on automatically as user Administrator. First, set Network environment to private (allow sharing). Please wait until you see the **Prinect Robo Technician** initialization window.



You will be requested to remove the deployment media (USB flash drive) from the computer. Please pull it off and click on OK to continue.

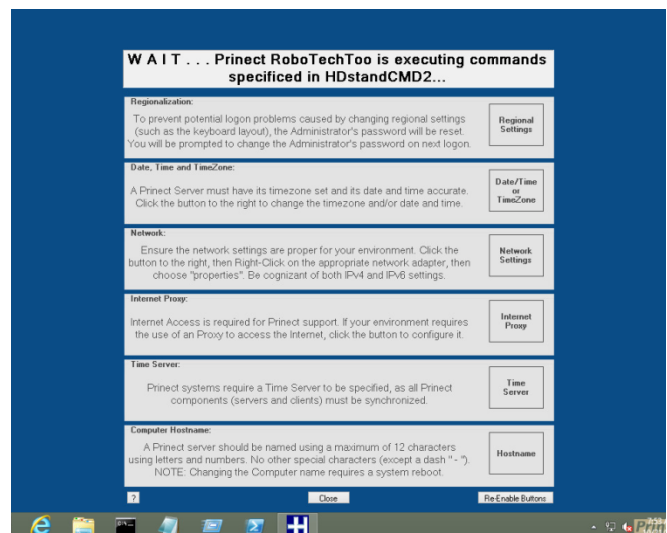
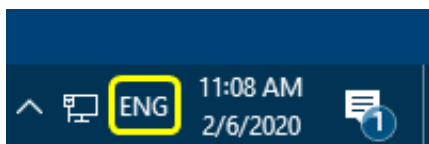
### You will be requested to remove the Prinect OS Deployment Wizard USB media



Afterwards, the RoboTechnician utility will continue creating, formatting, and assigning standard drive letters and labels to all partitions. Following starts the stage of Prinect Server Deployment ("Prinect RoboTechnician"), where the preparation of all configured drives happens. This includes creation of required partitions, formatting and assigning standard drive letters, configuring the pagefiles, executing configuration scripts and setting basic registry parameters. This phase will also prepare Prinect specific folders as well as system environment parameters for standardized installations. You will be logged off afterwards.

To proceed, log in as Administrator (with blank password). Now the **RoboTechToo** utility starts the second phase: First it completes some basic configuration steps like setting up the Prinect languages. Then it requests you to configure the further system settings that are required to run Prinect in a network environment.

Please wait for the RoboTechToo utility to complete its tasks, this may take some minutes – no active windows should be displayed anymore before starting the configuration steps:



**Note:** The DELL Microsoft product key for Windows Server 2019 was already assigned during the automatic server preparation, and the server operation system **has already been activated**. On server systems, there is no need for you to enter a license key or to activate the system on-line or off-line. The DELL Microsoft Windows 10 Pro product key has been read out of the workstations' firmware and has been installed on the system, but it is not yet activated. It **will be activated automatically as soon as an Internet connection is available**. Otherwise, you have to activate the system offline.

If possible, the network interface binding order and the network interface metric of the connected network interface card has been configured to make the connected card the one with the highest priority. This can only be done if exactly one network interface is connected to the network. Hint: A log file is available at the location C:\HDSservice\SBO.log.

**Required (manual) configuration steps:**

The **RoboTechToo** leads you through the system configuration, it displays the steps required to setup the system. Just follow the steps from top to bottom (please note that there have many changes compared to the older deployment versions):

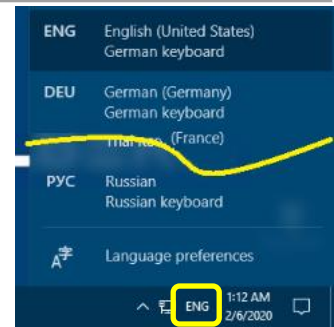
**Prinect RoboTechnician Too**

**Before loading Prinect software, please ensure the following system settings are properly configured:**

<p><b>Regionalization:</b></p> <p>To prevent potential logon problems caused by changing regional settings (such as the keyboard layout), the Administrator's password will be reset. You will be prompted to change the Administrator's password on next logon.</p>	<div style="border: 1px solid gray; padding: 5px; width: 80px; margin: auto;">Regional Settings</div>
<p><b>Date, Time and TimeZone:</b></p> <p>A Prinect Server must have its timezone set and its date and time accurate. Click the button to the right to change the timezone and/or date and time.</p>	<div style="border: 1px solid gray; padding: 5px; width: 80px; margin: auto;">Date/Time or TimeZone</div>
<p><b>Network:</b></p> <p>Ensure the network settings are proper for your environment. Click the button to the right, then Right-Click on the appropriate network adapter, then choose "properties". Be cognizant of both IPv4 and IPv6 settings.</p>	<div style="border: 1px solid gray; padding: 5px; width: 80px; margin: auto;">Network Settings</div>
<p><b>Internet Proxy:</b></p> <p>Internet Access is required for Prinect support. If your environment requires the use of an Proxy to access the Internet, click the button to configure it.</p>	<div style="border: 1px solid gray; padding: 5px; width: 80px; margin: auto;">Internet Proxy</div>
<p><b>Time Server:</b></p> <p>Prinect systems require a Time Server to be specified, as all Prinect components (servers and clients) must be synchronized.</p>	<div style="border: 1px solid gray; padding: 5px; width: 80px; margin: auto;">Time Server</div>
<p><b>Computer Hostname:</b></p> <p>A Prinect server should be named using a maximum of 12 characters using letters and numbers. No other special characters (except a dash "-"). NOTE: Changing the Computer name requires a system reboot.</p>	<div style="border: 1px solid gray; padding: 5px; width: 80px; margin: auto;">Hostname</div>

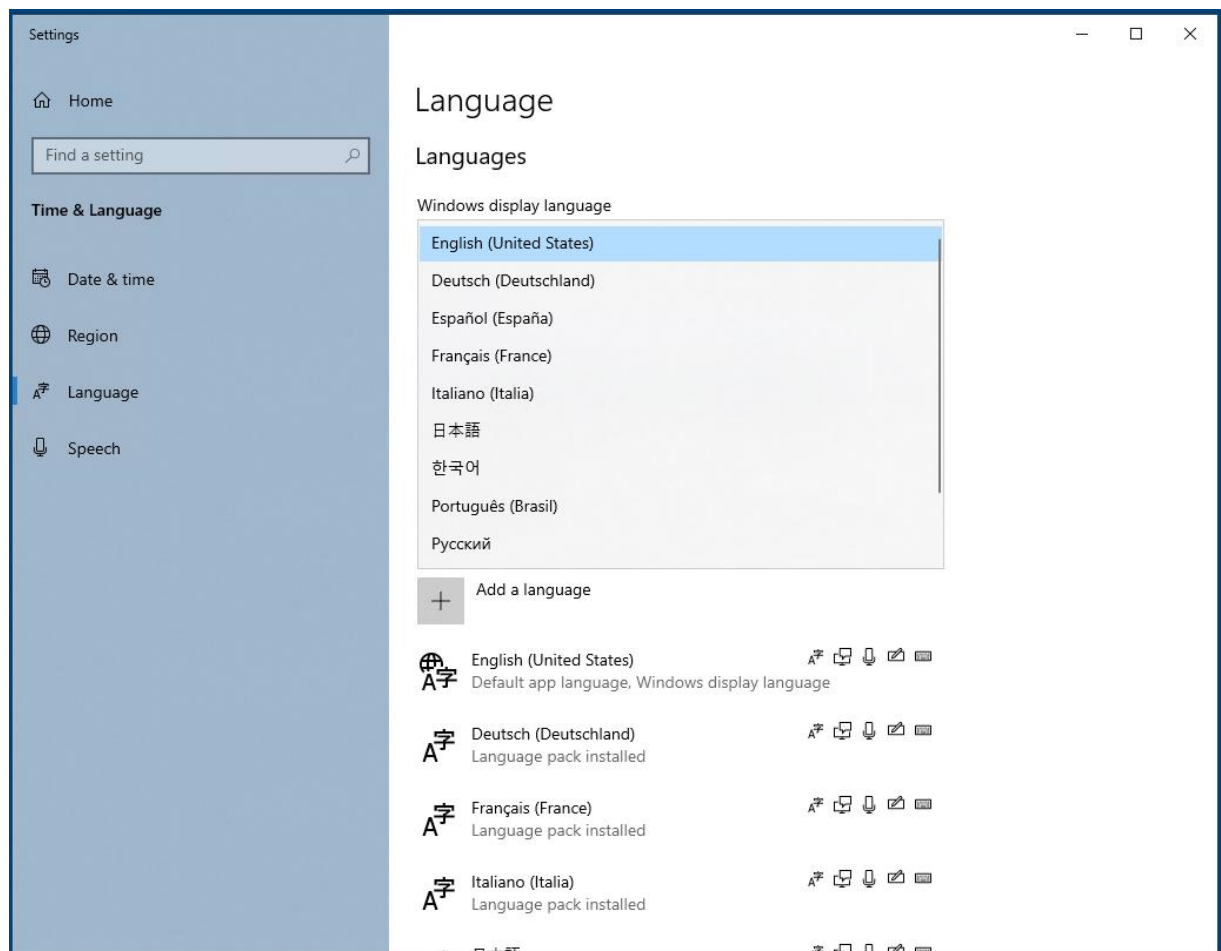
?
Close
Re-Enable Buttons

1. **This step cannot be started from the RoboToo UI:** If required (and this is required for everyone who does not use an ENG(US) keyboard layout), you have **to change the keyboard layout** first. Click on the language bar in the lower right corner of the system (see screenshot at the right-hand side) and select you keyboard layout. The changes will be activated at once and you will be able to use your familiar keyboard layout afterwards.

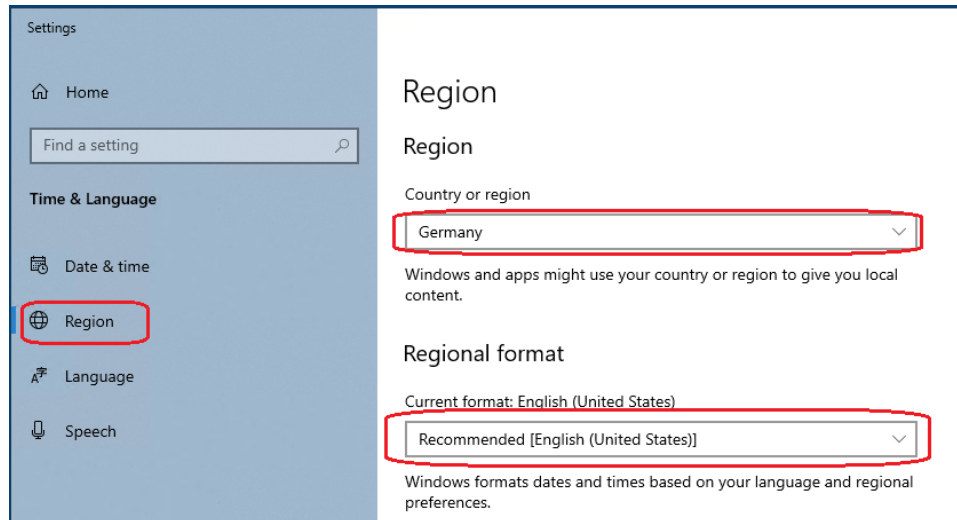


2. **Localization settings:**

There have been several UI changes for the actual Windows 10 and Server 2019; one of these changes affects the language settings. **Click on “Regional Settings”** to open the language and regional options. The first step is to select your desired display language: The Microsoft Language Packs for all Prinect languages (English, French, German, Italian, Japanese, Korean, Portuguese, Spanish, Russian, Thai and Chinese) are already pre-installed on the system. Select your target language:

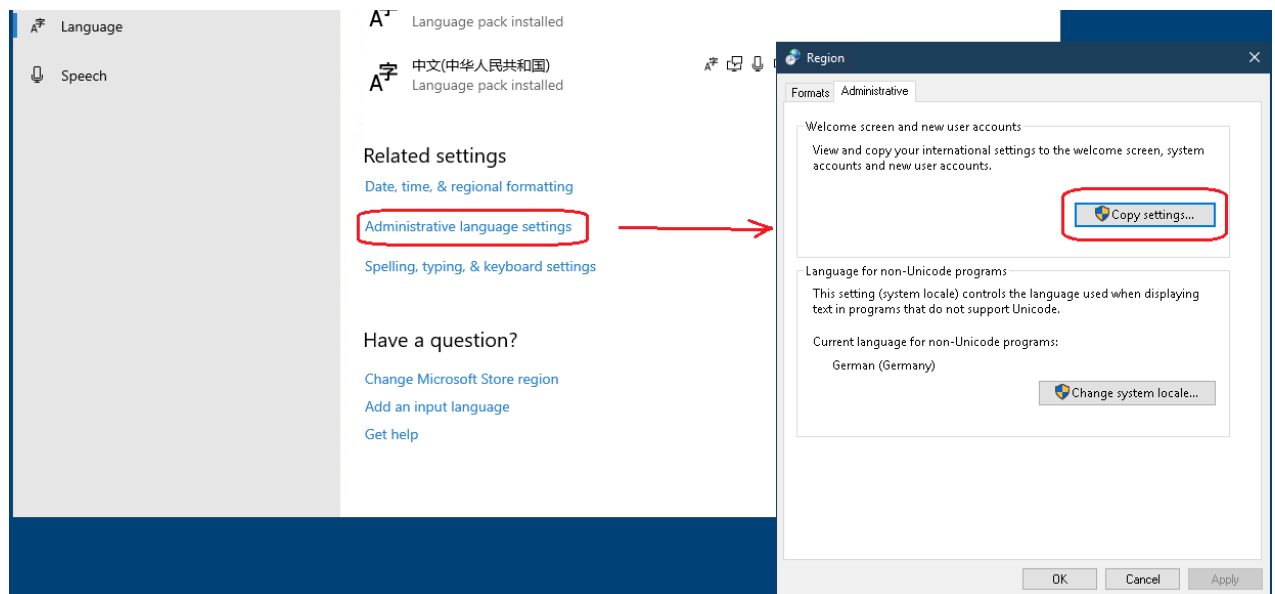


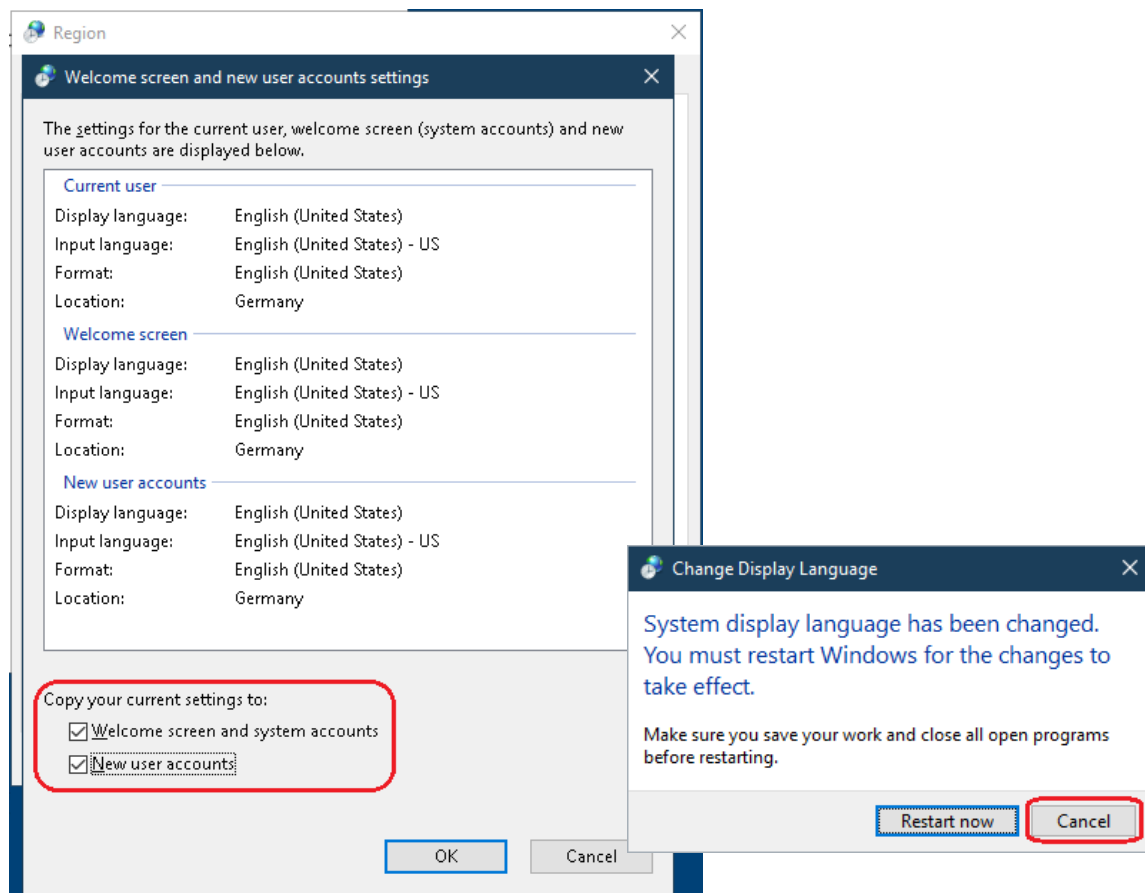
Next, click on “Region” and select your location and the preferred data format:



Please note that the data format will be automatically adjusted to the selected display language, it is not required to set it manually in most cases.

Go back to “Language”, scroll to the bottom, and click on “Administrative language settings”. Now, you are back on track: In the new window, click on “Copy settings...”. Again, a new window opens, asking you for the items to change. Select “Welcome screen and system account” and “New User accounts” to make your system the global system settings.





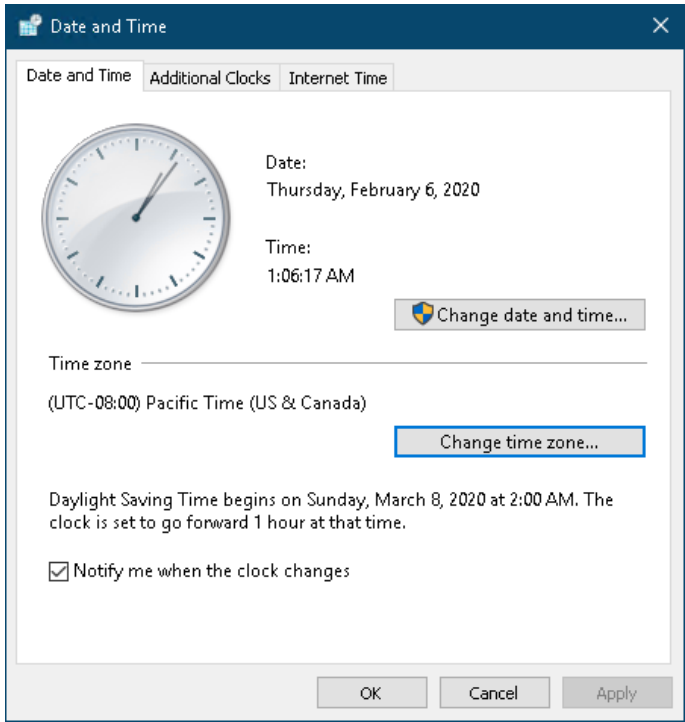
A reboot is required, **but do not reboot now!**

If you changed the system account language, it is a good idea to change the system locale to your preferred language, too. Although Prinect supports Unicode, please keep in mind that the system locale should be identical for all Prinect systems and clients (including Macs) that are part of the Prinect environment to avoid problems with content data encoding and font processing.

A reboot might be required, again: **Do not reboot now!**

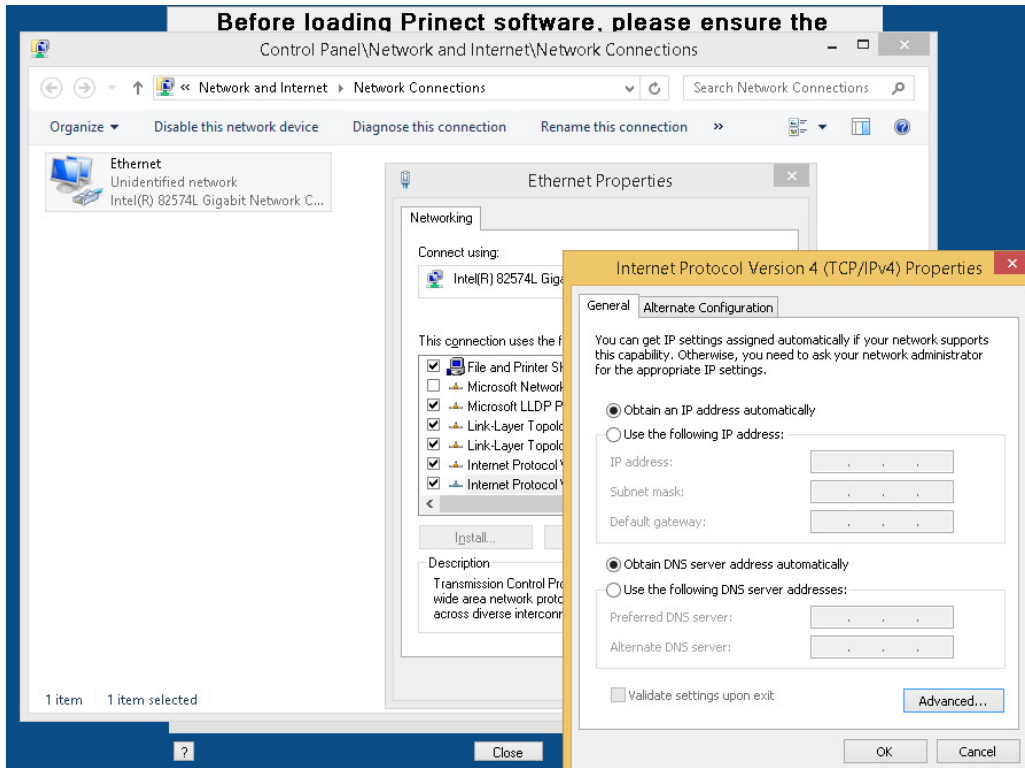
Note: The steps one and two are not required if you are located in the United States using a keyboard with ENG(US) keyboard layout.

3. Click on **“Date/Time or TimeZone”** to open the clock control panel and adjust the time zone:



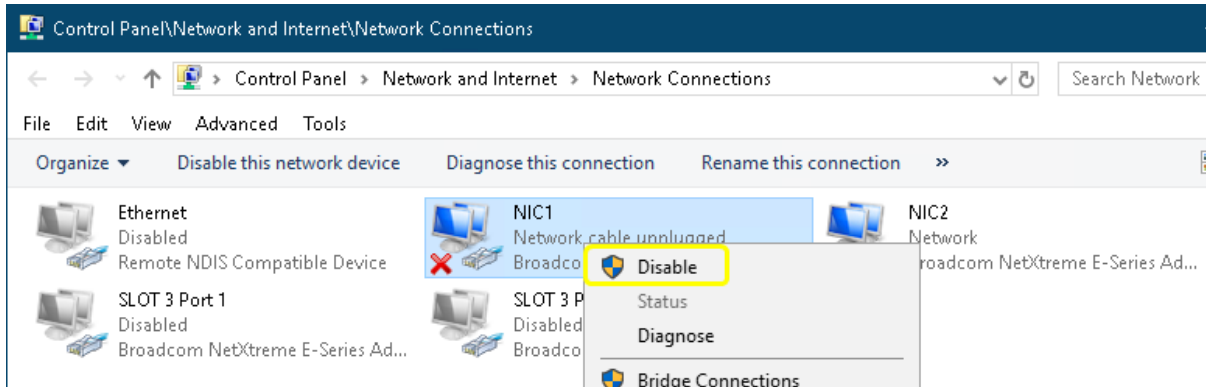
Close the “Date and Time” window afterwards.

4. Click on **“Network Settings”** to open the Network Connections control panel. Select your connected adapter and enter the desired configuration parameters.

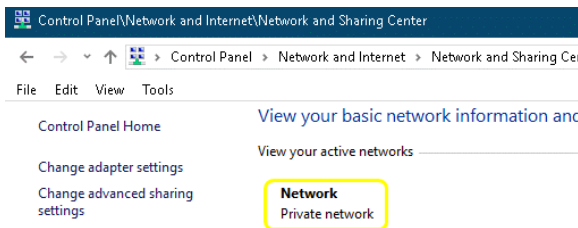


In the “**Ethernet Properties**” Window you may now perform the desired network settings. The default settings for TCP/IPv4 are automatic address assignment via DHCP. Please adjust these settings to meet the actual network requirements.

On systems containing more than one network interface adapter, please disable all unconnected NICs:

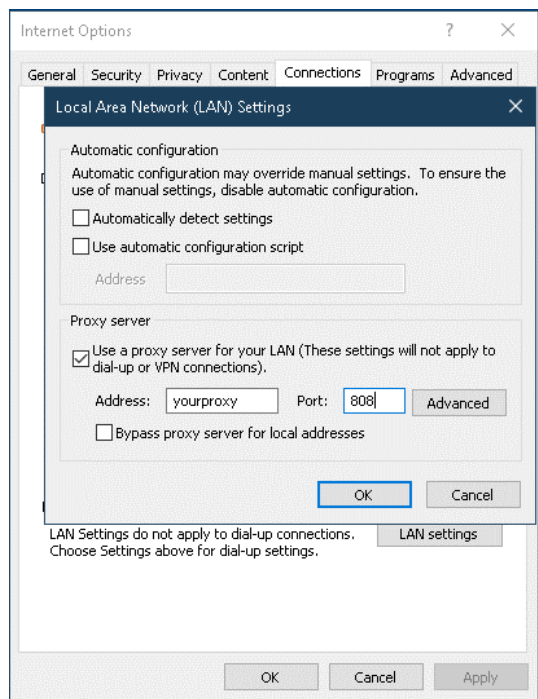


Note: Of course, you should not disable the network adapter that should be used to connect to a Suprasetter later on.

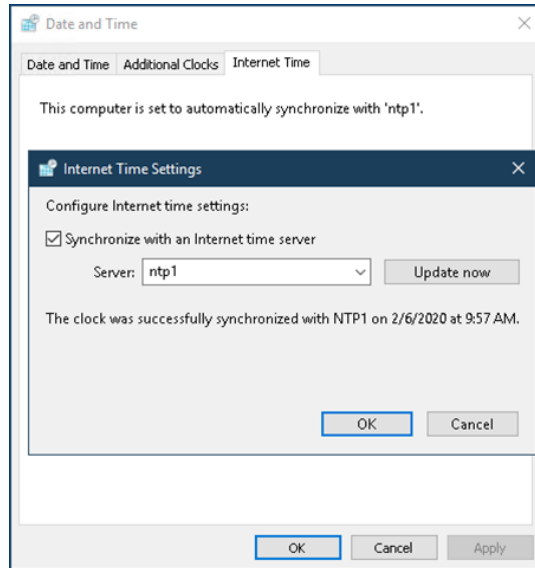


One last look at the network properties: Verify that the network is marked as private network in the Control Panels’ “Network and Sharing center” before closing the windows. For troubleshooting this issue, please refer to chapter “Post-deployment questions”.

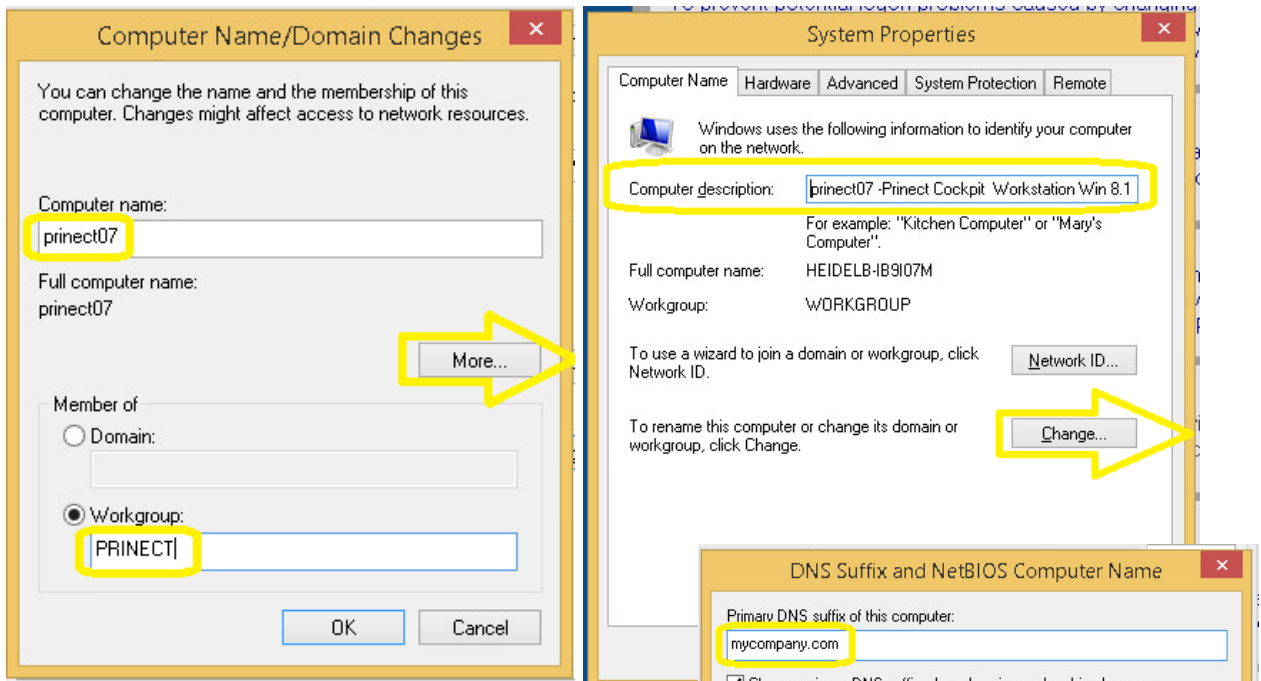
- 5. If your customer is accessing the internet through a proxy server, it is recommended to specify the server: Clicking on “**Internet Proxy**” opens the according configuration window. If you are unsure what to enter, please ask the customer’s network administrator.



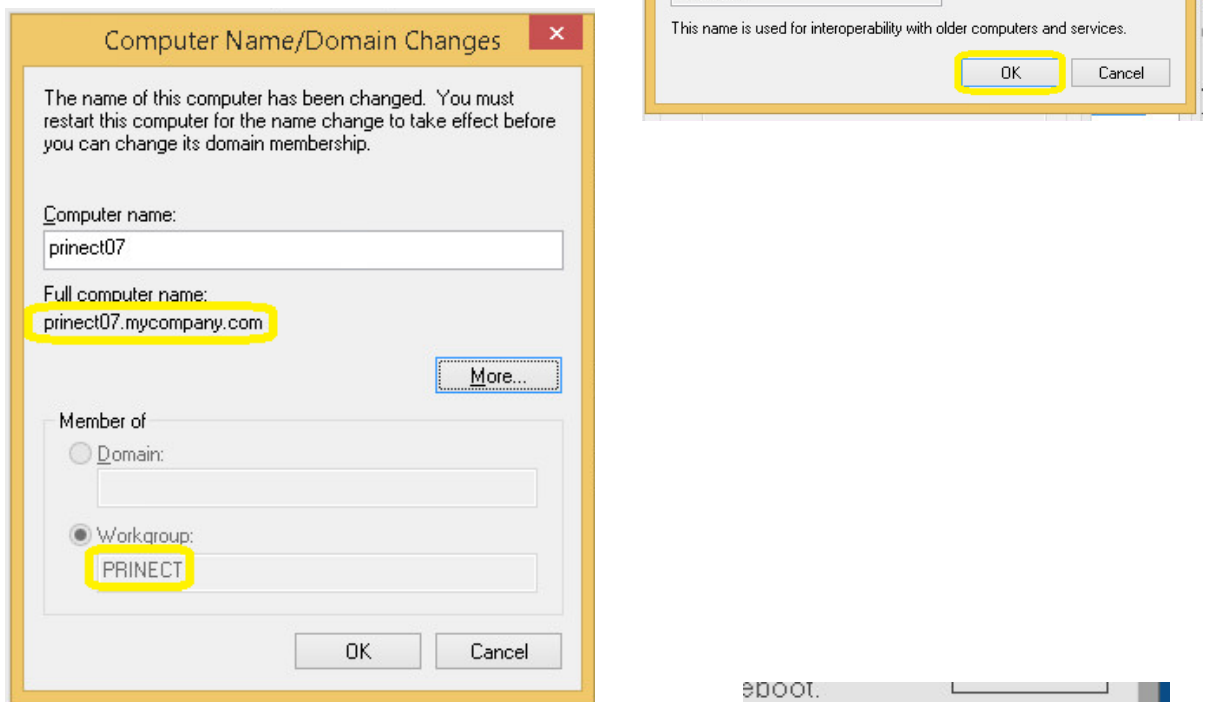
6. Now it's time for the time server configuration: Every Prinect environment relies on a properly configured network time, that's why it is mandatory to configure a time server- preferred is a server in the local network, at least the same time server must be configured for every Prinect (Windows- and Apple-based) computer! Clicking on **"Time Server"** opens the according configuration window. Please ask the customer's network administrator for the customer's time server name:



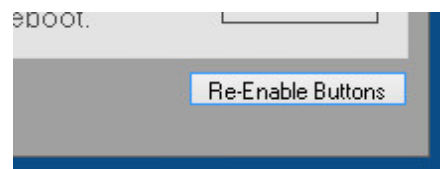
- 7. Last but not least: The computer's name must be changed to the desired name. Clicking on "Hostname" opens the configuration window. Please use a maximum of 12 characters, only "a-z", "0-9" and "-" are allowed characters. In case of a DNS-based name resolution (the recommended method), it is required to define the fully qualified computer name (FQDN), i.e. a primary DNS suffix must be defined for the computer. Please note that this suffix should be identical for all Prinect systems. A common Prinect workgroup name can be defined here, or the computer might be joined to a domain. If desired, the computer description might be adapted to contain further information.



The result should look like shown in the screen shot:

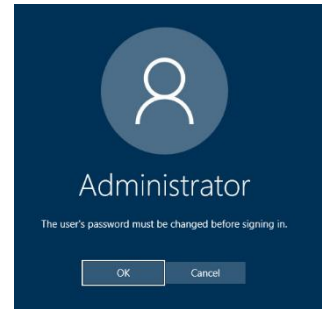


**Note:** If you missed a setting or if you want to cross-check some settings, it is possible to reactivate the buttons clicking on "Re-Enable Buttons":



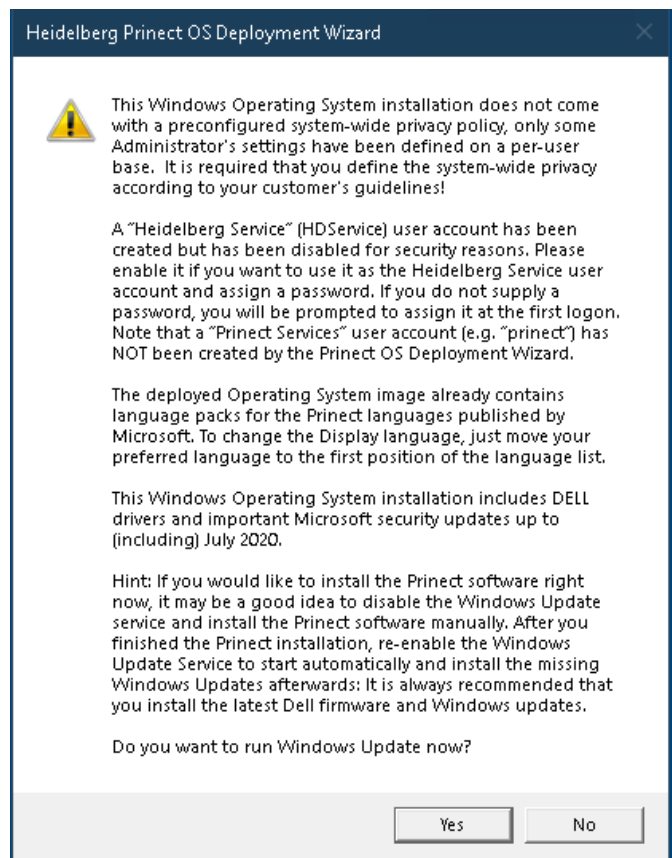
8. After changing the computer name, a **reboot** is required. Close all windows including the RoboTechToo and click on “Restart now” to reboot the system.

9. With this reboot the basic setup of the Prinect server has been nearly completed. At logon you will be asked to **specify a new password for the Administrator**. Please note that this **password must contain at least 8 characters** and must be **compliant to the Windows password complexity** security policy. It is strongly recommended that you set an Administrator password according to the customer’s password policy! Not even less important is that this password is well-known to the customer’s IT administrators: **Do ensure a responsible person at the site is aware of the password!**

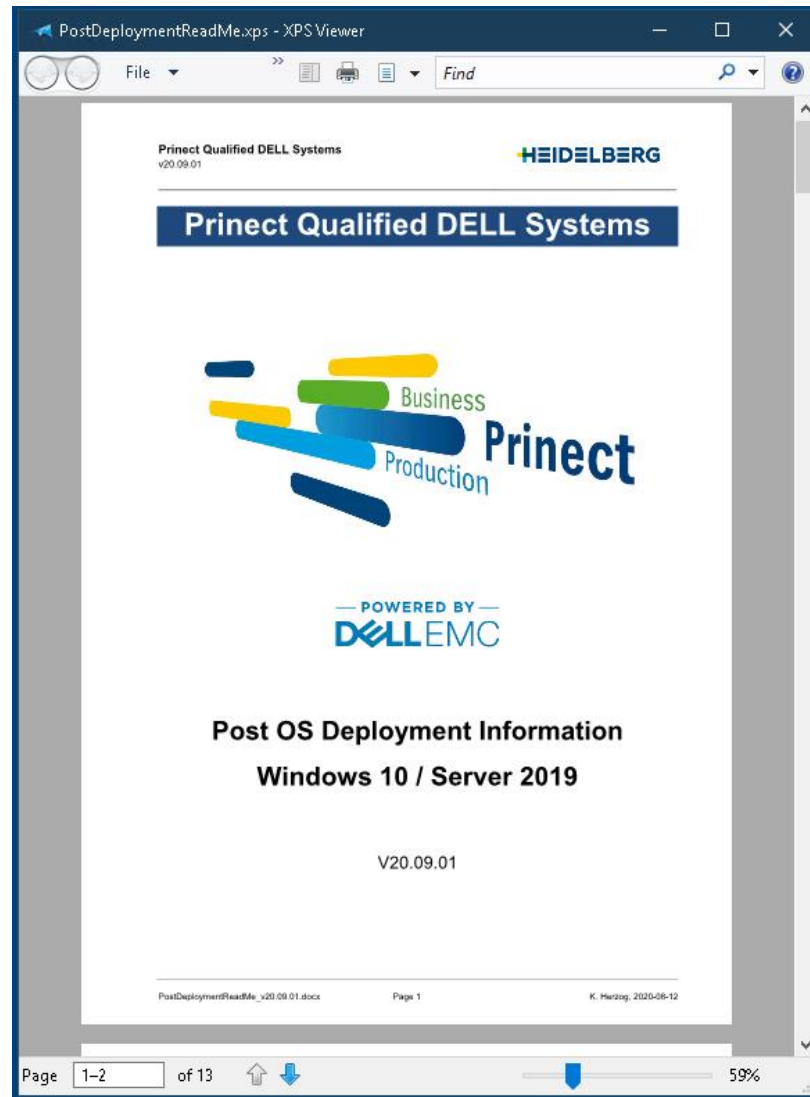


10. After changing the password, the system comes up. After some checks, a first hint reminds you to configure the privacy settings according to your customer’s guidelines and to install the latest Windows Updates. It asks you to start Windows Update: Select “Yes” and click on “Check for updates” on the Windows Update settings window.

**Hint:** If you would like to install the Prinect software right now, it is a good idea to click “No”: Installing the Windows updates may take a long time and might prevent the Prinect installation for a long(er) time. In this case, disable the Windows Update service and install the Prinect software manually. After you finished the Prinect installation, re-enable the Windows Update Service to start automatically and install the missing Windows Updates.



11. In the meantime, the “Post Deployment Readme” document will be opened, giving some further configuration hints and explaining the available tools:




12. Now it's time to enter customer-specific settings and afterwards, it might be the time for installing the according Prinect software products - but please take a look at the following hints!

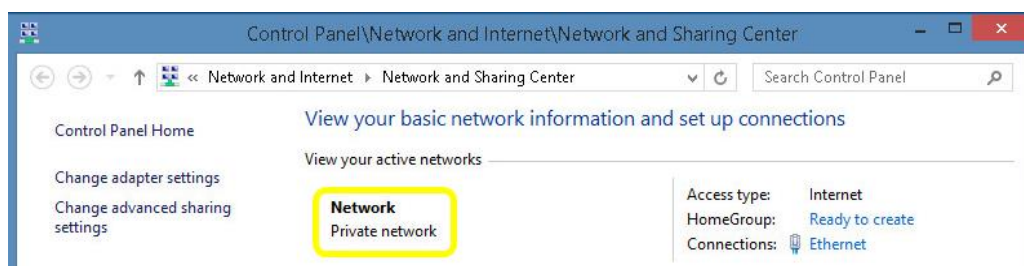


Starting with the actual deployment version 22.02.02, the generic “**Heidelberg Service**” (aka **HDSERVICE**) **user account has been discontinued** due to **security reasons** and will not be created any longer by the Prinect OS Deployment Wizard. That's why the post-deployment utility to enable this user is not available anymore.

Also note that a “Prinect Services” user account (aka prinect) is **not** created by the Prinect OS Deployment Wizard for security reasons. Do not create it manually: This account will be created and configured during Prinect software installation by the according Prinect product installer.

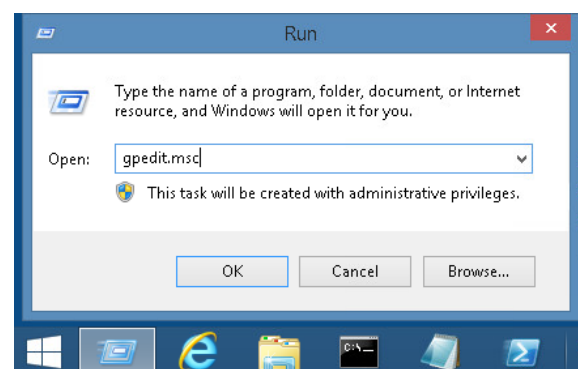
## 11.5 System security hints and recommendations

- Note that you will be prompted to assign a password at the first logon as user Administrator. Please note that this **password must contain at least 8 characters** and must be **compliant to the Windows password complexity** security policy. It is **strongly recommended that you set an Administrator password according to the customer's password policy!** Not even less important is that this password is well-known to the customer's IT administrators... 
- The deployment images include some DELL driver updates and Microsoft security updates, but **newer Windows updates or hot fixes must be installed manually using Windows Update.** Dell updates can be installed using the "Dell Server Update Utility" aka SUU (available at [support.dell.com](http://support.dell.com)) on server systems and the Dell "Command|Update" utility (pre-installed on Dell client systems).
- If your customer does not want to rely on the build-in Windows Defender, your customer may install virus **protection software** fully compatible with the installed operating system.
- Note that the Windows inbound Firewall is enabled by default. For Windows 10, default settings of the „File and Printer Sharing“ Group inbound access via the Windows Firewall only grant access for hosts within the local subnet. This is different compared to Windows Server 2019 Firewall settings which allow inbound File and Printer Sharing access for any subnet. In a Prinect system environment it may be required to browse and access Windows shares across subnet boundaries. Therefore, **the Prinect OS Deployment Wizard modified the Windows Firewall inbound settings for "File and Printer Sharing" to "any" (subnet).**
- Do not forget to configure the "Internet **Time**" server (NTP server) since this is absolutely required in Prinect system environments!
- Note that the servers "Network location" might be set to "Public network". **It is recommended to change the Network Location to "Private network".** The discovery of other computers and devices is limited for a "Public network", and the use of the network by some applications may be restricted. **Prinect applications will not work properly in a "Public Network" location!**

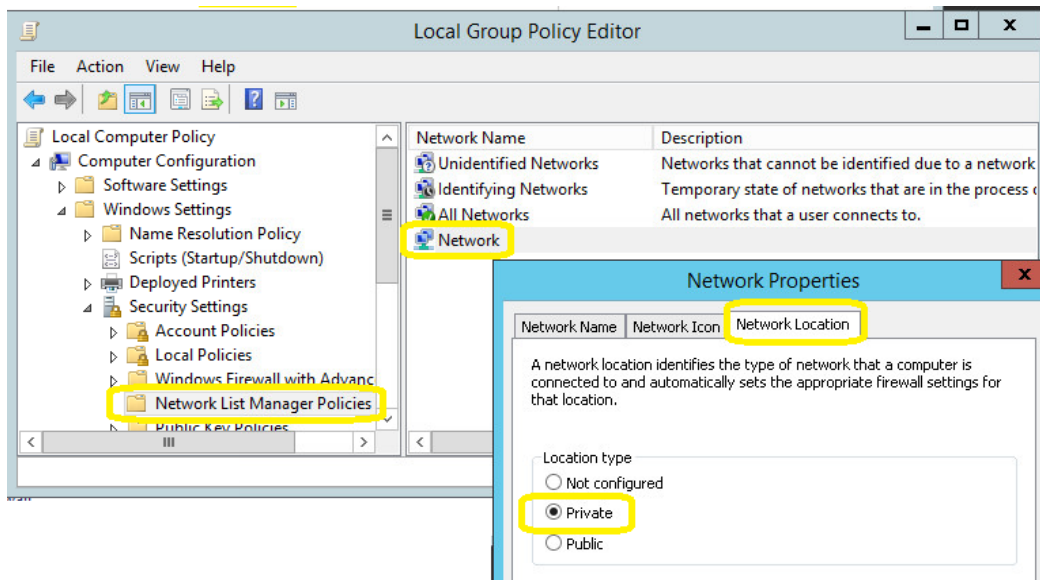


Changing the network location can only be done by setting an according group policy: Click on "Run" and enter "gpedit.msc" to start the Group policy editor.

In the Group Policy Editor, navigate to "Computer Configuration" > "Windows Settings" > "Security Settings" > "Network List Manager Policies" double-click the network name (here: "Network") to open the properties and set the location to "Private".



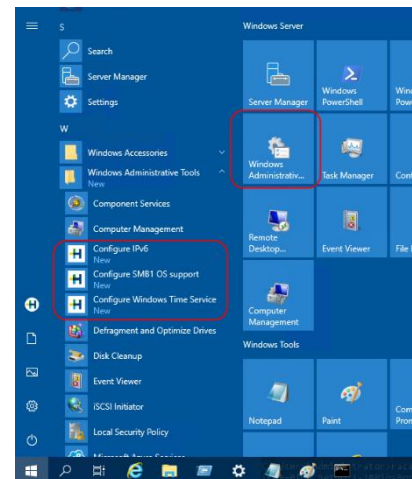
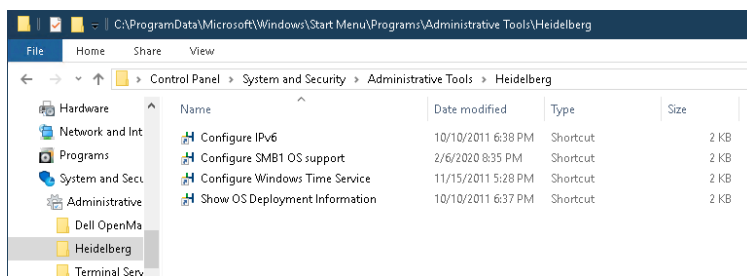
In case of a direct (online) Suprasetter connection, please note that this is also required for the Network that connects the Suprasetter device.



- Configure the server to meet the actual **network requirements** (DHCP / static IP, DNS, ...).

### 11.6 Heidelberg post-deployment utilities

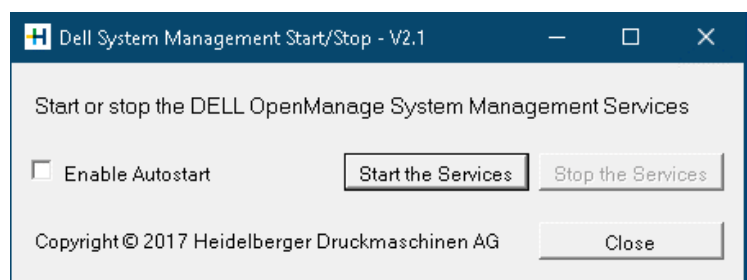
The Heidelberg post-deployment utilities are in the Administrative Tools section of the Control Panel. It is possible to access them directly via the start menu or by starting the “Windows Administrative Tools” Applet and navigate to “Heidelberg”:



**To start the Heidelberg post-deployment utilities, it is recommended to log in as Administrator.**

#### a. Start or Stop the DELL OpenManage Server Manager Software (Server systems only):

The DELL OpenManage Server Manager software is installed in the deployed Windows Server image. In order to avoid that the related services are started automatically and unnecessarily consume CPU time, the startup properties of these services have been set to “Manual” start. In order to start or stop the DELL OpenManage Server Manager services you may use the Heidelberg utility “Start or Stop DELL System Management”.



b. **Configure IPv6 in the Windows Registry**

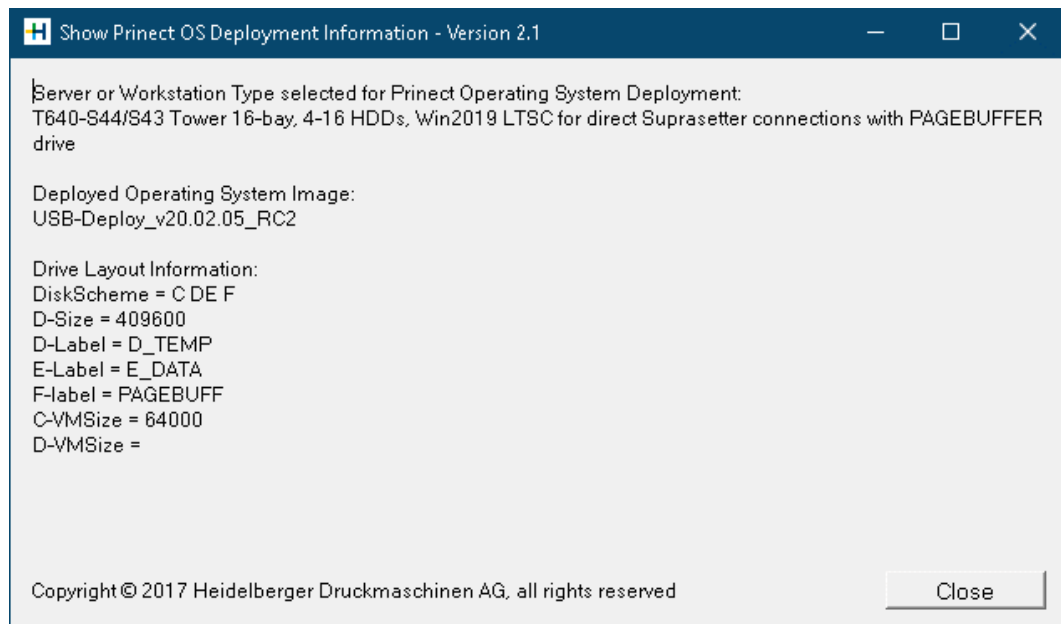
Note that the IPv6 protocol stack should not be disabled in the Windows registry. But during Operating System deployment, it is set to prefer IPv4 over IPv6. If you need to change this setting, you may use the Heidelberg Administrative Tools utility "Configure IPv6". Click on "Apply" to configure IPv6 in the Windows Registry. Note that a reboot is required to activate the changes.

Please note that it is **not recommended to disable** the IPv6 protocol on a system-wide base.



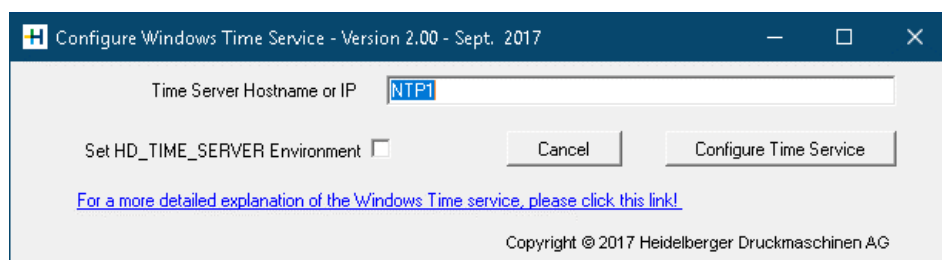
c. **Display Operating System Deployment Information**

Please use the Heidelberg Administrative Tools utility "Show OS Deployment Information" in order to display information regarding the chosen Deployment selection and the deployed OS image.



d. **Configure Windows Time Service**

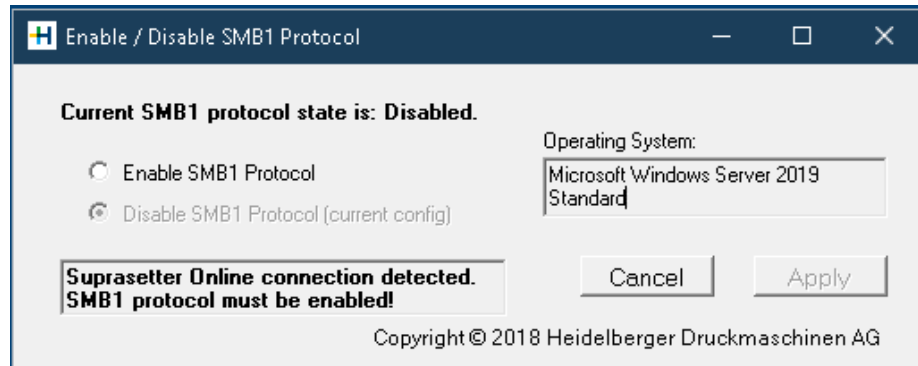
If you need to configure your Prinect server's build-in Windows Time Service, this little tool might be helpful:



e. **Configure SMB1 OS Support**

After a fresh Windows installation, the support for SMB1 protocol is disabled by default. Some of our configurations or products require SMB1 support to function properly, e.g. Linux-CPU-based Suprasetters or Press Center installations with software versions 15B or less.

If you need to configure your system's SMB1 protocol support, this little tool might be helpful:



Please note that the actual Windows operating systems do not support other post deployment utilities anymore, therefore they have been removed from the start menu!

The generic "Heidelberg Service" (HDSservice) user account has been discontinued due to security reasons and therefore will **not** be created any longer by the Prinect OS Deployment Wizard, that's why the "Enable HDSservice user" tool is not available any longer. Please note that this user will not be created by the Prinect product installer, too.

## 12. Prinect OS Deployment Wizard FAQ and Troubleshooting

### Pre-Deployment questions

- Q:** My DELL workstation is **missing a Windows license key** sticker. How do I install a license key?
- A:** There is no license sticker on the system housing; the individual Windows Pro **key is pre-installed in the systems UEFI firmware** (if you ordered the system accordingly). This license key will be read out of the firmware and entered automatically during deployment, but the system must be activated afterwards – this happens automatically if an internet connection is detected. If no internet connection is available, the system must be activated offline.
- Q:** I bought a Windows 10 Professional system, but I need to install the old **Windows 7** operating system, is there a downgrade right available?
- A:** Windows 7 is no longer supported (neither by Microsoft nor by Prinect) and therefore a downgrade is not possible anymore. But anyway: **Our actual client systems with Intel CPUs support only Windows 10 -based operating systems**, older versions cannot be installed on these systems!
- Q:** I bought a Windows 10 Professional system without installed downgrade, but I need to install the old **Windows 8.1** operating system, is there a downgrade right available?
- A:** **Our actual client systems with Intel CPUs support only Windows 10 operating systems**, older versions like Windows 8.1 cannot be installed on these systems!
- Q:** I bought a Windows Server 2022 system, but I need to install the old Windows Server 2019 operating system, is there a downgrade right available?
- A:** As of today, you are allowed to downgrade to Windows Server 2019 and even to Windows Server 2016 Standard if granted in the OEM license terms. Some server systems come with downgrade media and keys. Please keep in mind that older Deployment versions are not able to handle the current PowerEdge servers.

### Deployment boot issues

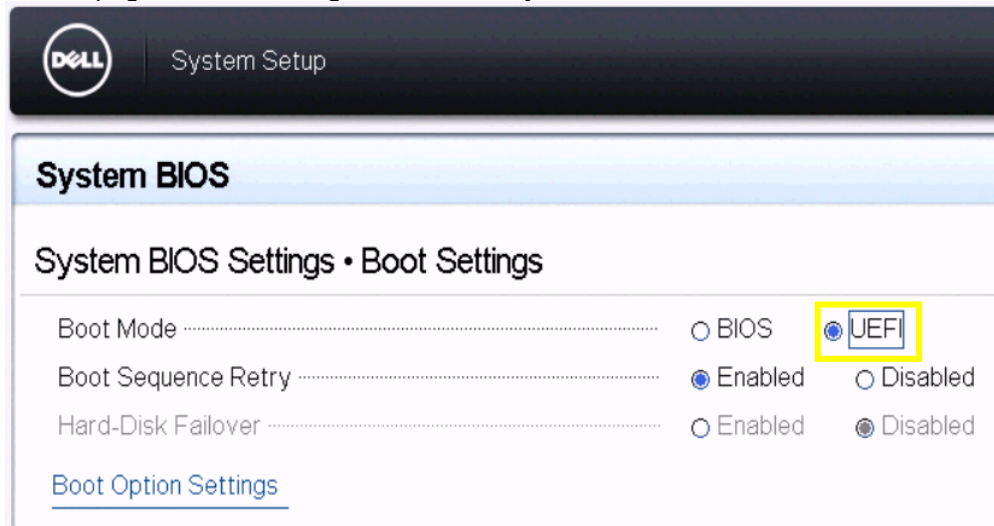
- Q:** When trying to boot the Deployment Wizard USB flash drive, I get a “BSOD” (blue screen of death) and eventually also an “inaccessible boot device error” or the system just freezes. What’s wrong?
- A1:** You are using a Deployment Wizard USB Stick does not fit for the platform you are trying to install. Obtain a more current deployment USB Stick release (or the older version that fits your platform). Just like “regular” Windows, the Deployment Wizard USB Stick needs its drivers updated when new computer platforms come out.
- A2:** You simply have either a bad USB flash drive or a bad USB connector itself. Troubleshoot the problem by booting the USB flash drive on another connector and/or on another computer platform, and/or try a different copy of the USB flash drive.
- Q:** When booting the Deployment Wizard, I get an error that “file ‘XXX’ is missing” or “invalid drive letter” and it stops booting. What could be wrong?
- A:** You simply have either a bad USB flash drive or a bad USB connector itself. Troubleshoot the problem by booting the USB flash drive on another connector and/or on another computer platform, and/or try a different copy of the USB flash drive.
- Q:** Why is it important to disconnect all USB drives like external hard disks, flash card reader etc.?
- A:** Older versions of the Deployment Wizard **formatted any attached USB hard drive** (except the Deployment Wizard USB flash boot drive) and thumb drives as if they were part of the desired configuration! The Prinect OS Deployment Wizard USB flash drive (Deployment Wizard USB-Stick) was the only allowed exception. This behavior should have been changed with the current version, but just in case...
- Q:** I want to deploy a **Server**; do I have to set the system’s boot mode to UEFI before deployment?
- A:** **Yes, setting system boot mode to UEFI is required** for all PowerEdge servers to boot the USB Deployment Wizard in UEFI mode!

**Q:** I want to deploy a **Workstation**; do I have to set the system's boot mode to UEFI before deployment?

**A:** The theoretical answer is "yes", UEFI boot mode is required for workstations. But practically, this is not an issue anymore: The actual systems simply do not support legacy aka BIOS boot mode any longer.

**Q:** How to set the system's boot mode to "UEFI"?

**A:** Enter the system's "BIOS Setup" (workstations) or "System Setup" (servers) during system boot by pressing <F2> when prompted or select the setup option from the Boot Manager menu. In the firmware Setup, go to "Boot settings" and set the system's boot mode to UEFI:

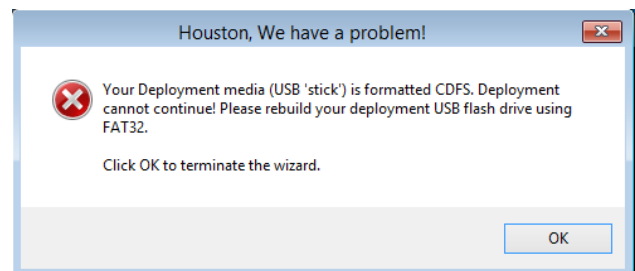


**Q:** Why can't I see the Deployment USB flash drive in the system's **UEFI** boot device selection, although it is connected to a USB port?

**A:** The new Deployment requires UEFI boot mode, and this **requires a FAT32 formatted boot device**. If the device is not FAT32-formatted, you won't see it as valid boot device in the boot menu. Rebuild your flash drive using FAT32.

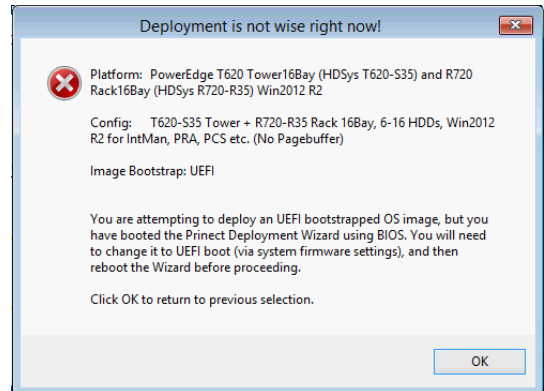
**Q:** I see an error message "Your deployment media is formatted NTFS... Please rebuild your deployment flash drive using FAT32". What does it mean?

**A:** The deployment requires UEFI boot mode and therefore **requires a FAT32 formatted** boot device. Please follow the instruction and rebuild your flash drive using **FAT32** and boot it in UEFI mode.



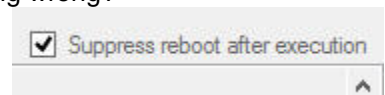
**Questions during deployment**

- Q:** I selected my platform configuration and clicked on the Deploy icon, but I got an error message with the title “Deployment is not wise right now”. What’s wrong?
- A:** The Deployment Wizard has been booted in BIOS boot mode, not in UEFI boot mode. In this case, the boot environment cannot be installed correctly. It is recommended to reboot the Deployment Wizard in UEFI boot mode for deployment. Please make sure to select the “UEFI Boot Manager” on server systems and the “UEFI Boot” section on Workstation sections to boot your Deployment USB flash drive.



- Q:** My deployment reboots unexpectedly, how I can I find out what is going wrong?

- A:** To prevent the system from rebooting, just check the box “Suppress Reboot after execution” and take a look at the output in the “Script progress” window and/or in the log file – in most of the cases, this will give a hint what is going wrong!



- Q:** My deployment has gone for more than 45 minutes. Even the message on the Deployment Wizard GUI itself is displaying “This Deployment is taking too long!!!”. What’s wrong?

- A1:** There are some possible reasons, starting with the most probable: The deployment wizard attempts to prepare physical drive 0 (or Virtual Disk 0 in the case of RAID) as the system drive. If something is interfering with this drive being properly enumerated this can occur. This is a rather unusual situation. The most common reason is that a USB flash drive or USB hard drive is plugged in during the deployment process. USB drives modify the enumeration of the drives within the computer and should not be plugged in during deployment.
- A2:** Ensure **no Flash Card readers or other USB devices publishing drive letters** (e.g. monitors featuring a USB multi-card reader) **are installed**. The deployment logic cannot handle phantom drives (letters with no media attached).

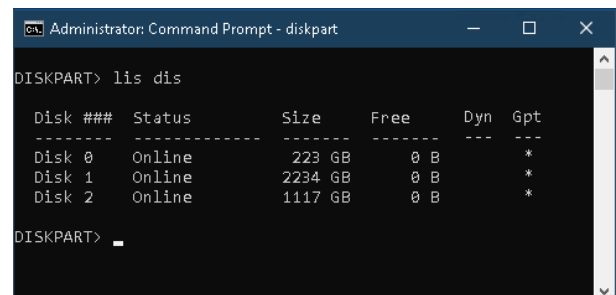
- Q1:** How do I check the presence of possibly unwanted drives on the system?

- Q2:** How can I verify the presence of physical (or logical RAID arrays) drives on the system?

- A:** Boot the Deployment wizard normally (even though the platform selections may be missing)
1. Launch the command prompt by clicking the “C:>” button:



2. At the Command Prompt issue the command: **diskpart**
3. At the “DiskPart” prompt issue the command: **list disk**
4. All of the disks will be displayed. **Look for ones that you cannot account for.** (Remember that RAID arrays will show up as one disk)



- Q:** How long does the deployment take normally?

- A:** If you deploy a system using a fast USB3 flash drive on a USB3 port, the system may reboot in less than 5 minutes. If you deploy a system with a slow USB drive, it may take more than 40 minutes to write the image files to disk. The time depends on the system and the USB drive used to deploy the system.

- Q:** Is it possible to deploy a server with connected SAS RAID enclosure?

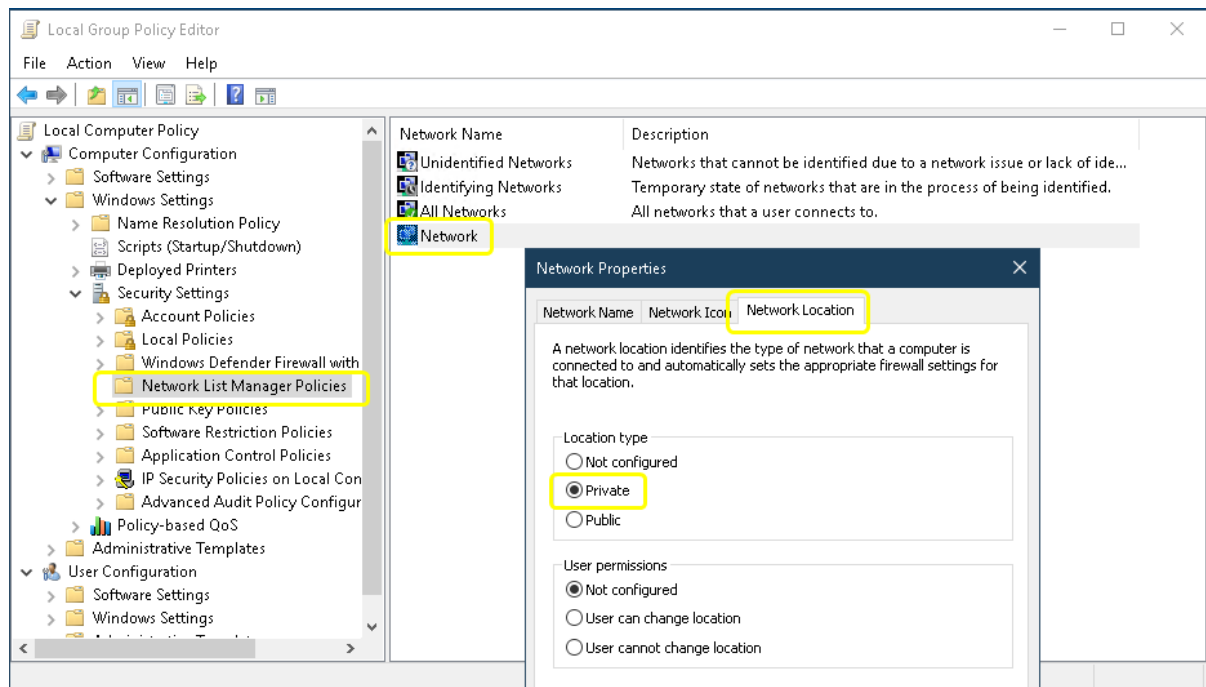
- A:** No: Only one PERC RAID controller is allowed in the system during deployment. To deploy such a server, it is required to remove the additional (external) RAID controller(s) like e.g. a PERC H840.

## Post-deployment questions

**Q:** How do I set my **network environment to “private”** after deployment?

**A:** Changing the network location can only be done by setting an according group policy: Click on “Run” and enter “gpedit.msc” to start the Group policy editor.

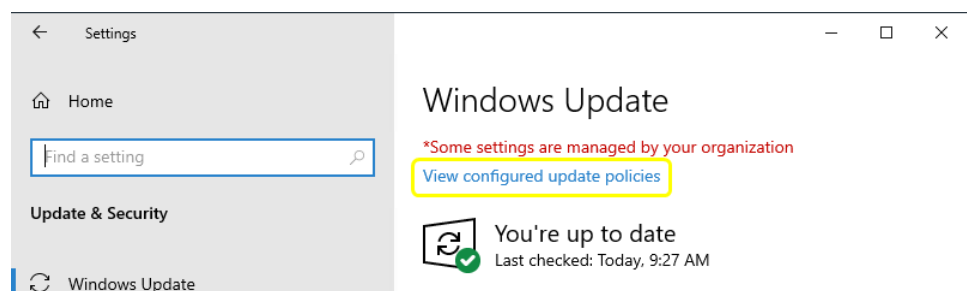
Navigate to “Computer Configuration” > “Windows Settings” > “Security Settings” > “Network List Manager Policies” and select the network name (here: “Network”). Open the properties window and set the location to “Private”.



**Q:** My DELL server has a license key sticker saying it is for **Windows Server 2022**. Can I use this key for licensing?

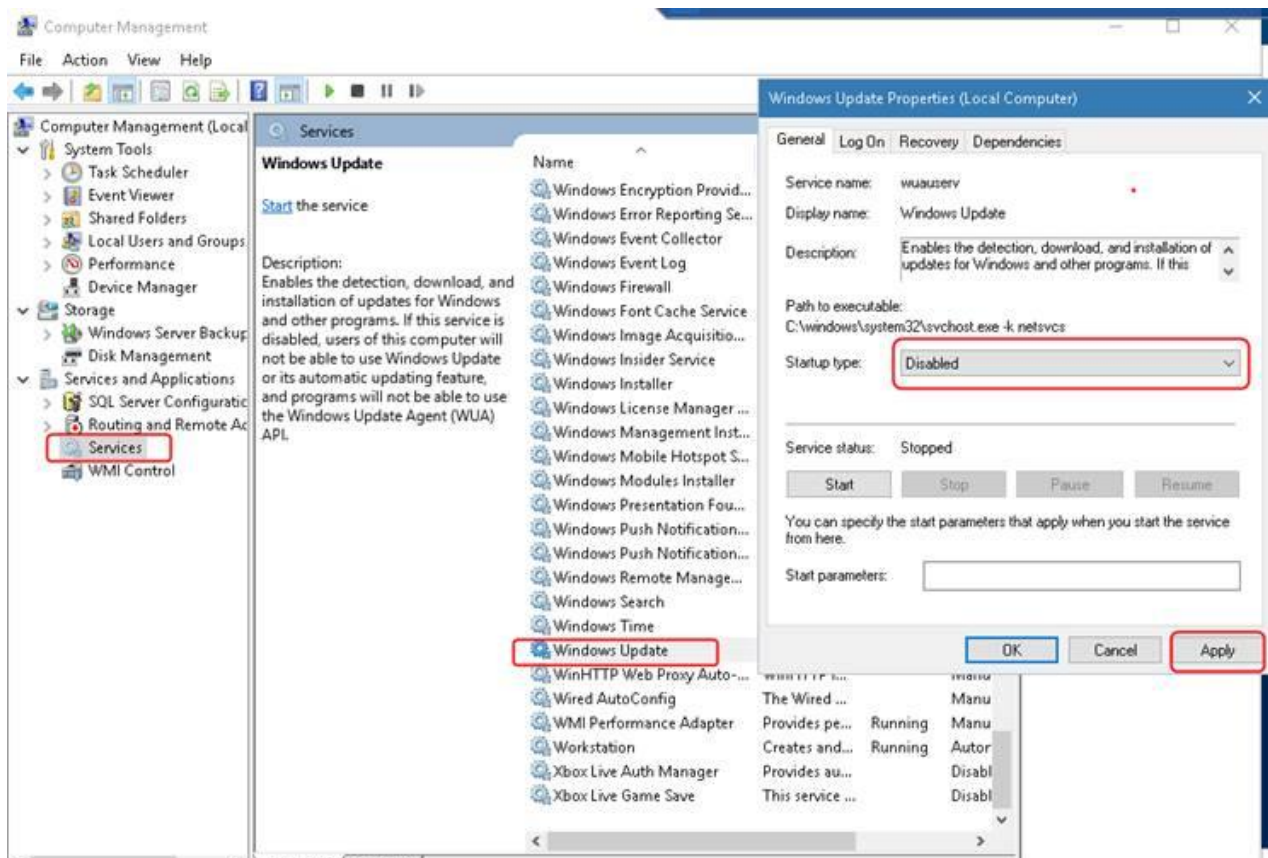
**A:** Only if the deployed operating system is Windows Server 2022. If there is a Downgrade Media set, coming with the server, you will find the Windows Server 2019 key in this set. Please note that the deployed Windows Server OS is already licensed and activated.

**Q:** The “Windows Update” settings panel reports “Some settings are managed by your organization”, what does it mean?

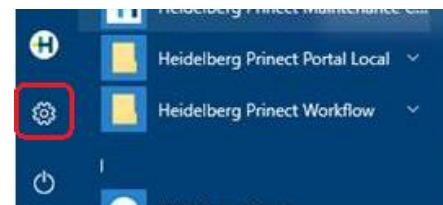


**A:** To make sure that Windows Update or Upgrade installation does not disturb production, some local policy settings have been defined to prevent automatic update installation, prevent preview build installation, and activate “Windows Update for business” to delay Upgrade installation. Please note that local policies can be overwritten by global domain policies.

- Q:** I'm missing the "Heidelberg Service" (HDSERVICE) user account and the "Enable HDSERVICE user" tool to enable the user and apply a password?
- A:** Please note that the generic "Heidelberg Service" (HDSERVICE) user account has been discontinued due to security reasons and therefore will **not** be created any longer by the Prinect OS Deployment Wizard.
- Q:** I need to **install the Prinect software right after deployment**, but a popup window asks me to install Windows updates. What should I do now?
- A:** Starting the Windows updates in this case will take a quite long time, in addition it might interfere with your Prinect installers. That's why it is a better idea to prevent the Windows Updates from being installed by disabling the Windows Update service in the "Computer Management" console:



Afterwards, run the required Prinect software installer manually until all required Prinect software modules are installed. Re-enable the Windows Update service by setting the startup type back to "Automatic", start the service and install the missing Windows updates using the "Settings" App (Immersive Control Panel).



---

## Known Windows Deployment Issues

- The **Homepage** needs to be **confirmed** at first Browser start
- The **default browser** app needs to be set manually
- The **privacy settings must be set manually**. Please note that most of the Windows settings are on a per-user base and needs to be defined manually for every user. The **deployed Windows images do not contain system-wide privacy policy settings**; only Windows update and preview build installation settings have been pre-defined by policies. **That's why it is required that you define the system-wide privacy according to your customer's guidelines!**
- The Windows Operating System installation includes **DELL drivers and important Microsoft security updates** up to the date mentioned in the pop-up window. Nevertheless, it is recommended that you install the latest Dell firmware and driver updates and perform a Windows Update to ensure system security.
- **The Windows 10 Dell "Recovery Media" cannot be used to do a disaster recovery** (aka fresh install) and therefore is not useful for customers relying on this function. Please use Microsoft's "Media Creation Tool" to create an installation medium, if desired, or download the installation media from Dell's support page (<https://www.dell.com/support>).
- **After an operating system upgrade** (aka "Feature Update" installation), you must **check all settings and set them back to the Prinect recommended defaults if necessary**: This includes disabling hibernation support (especially for Suprasetter systems), memory pool settings, privacy settings, app settings etc. On Windows 10 systems, this might happen twice a year...