How to deploy drivers with v3 and v4 architecture

HP PWXL Pro and HP Z-Pro printer series

This document provides detailed guidance on the deployment of drivers using Microsoft v4 and v3 architectures, focusing on the distinctions and workflows associated with each version. Find the relevant information below.

Driver V4 (XPS)

Overview:

- V4 drivers have been introduced to replace V3, primarily for security reasons.
- Two Main Approaches for UI Functionality and Shared Printer Operation:

1. Using Windows Update:

- Shared Printers Environment Point&Print Installation.avi
- Workflow:
    - Server Setup:
        - Install the XPS V4 driver on the server.
    - Client Setup:
        - Connect the client to the server and install the shared V4 driver.
        - Initially, the UI of the XPS driver might not open correctly because the necessary files are not yet downloaded from Windows Update.
    - Waiting for Windows Update:
        - Wait for Windows to detect the XPS driver and complete the download of required files from Windows Update.
    - Verification:
        - Once the system detects and installs the necessary software, the UI should open correctly.
        - You can now send print jobs from the client to the server, which will forward them to the physical printer.

2. Without Using Windows Update:

- Shared Printer without Windows Update .avi
- Workflow:
    - Server Setup:
        - Install the V4 driver and point it to a physical printer on the server.

NOTE: The XPS driver's UI will not open correctly if it lacks the necessary files from Windows Update. Alternative Methods:

- Option A: Manual Installation on Client
  - Manually install the driver on each client machine.
  - Connect the client to the server to complete the installation.
  - This manual process ensures that the required files for the XPS driver UI are present.
- Option B: Using .msi File
  - Purpose: The .msi file is useful for IT Admins who need to deploy the driver across many client machines without manual installation on each one.
  - Example: If 100 employees need access to a shared printer, manually installing the driver on each machine is impractical.
  - GPO (Group Policy Object) Deployment: HP's IT team provides guidance on deploying the driver via GPO using the .msi file. This automates the installation process across multiple machines.
  - IT Admin Responsibility: IT Admins must handle software deployment methods such as GPO or Active Directory. For further assistance, consult HP's IT team.

Driver V3 (Nautilus)

Overview:

- Deprecated Driver: The V3 driver does not depend on Windows Update for downloading necessary information or files.
- Server-to-Client Communication: All required information and files travel directly from the server to the client, enabling the UI (User Interface) of the driver to open directly on the client side.

Workflow:

Server Setup:
  o Install a V3 driver on the server (in this example, using local port).
Client Setup:
  o Connect the client to the server and install the shared V3 driver.
  o Verify that the driver's UI opens correctly on the client.
Print Test:
  o Execute a print test to confirm that the driver functions properly.
  o The .prn file (print job) travels from the client to the server, then ends up in a designated folder on the server.

Verification:

- After the manual installation or GPO deployment, verify that the XPS driver's UI opens correctly.
- Print jobs can now be sent from the client to the server and forwarded to the physical printer.

Key Points to Remember

- V3 Driver: Direct server-to-client communication without Windows Update. Manual setup ensures the UI opens correctly.
- V4 Driver: Requires additional files from Windows Update or manual setup on the client. Offers two deployment methods (with or without Windows Update).
- Deployment Methods: Manual installation for individual clients or automated deployment using .msi and GPO for large-scale deployment.

For detailed steps and visual guidance, refer to the video tutorials provided:

- [V3 Workflow: Shared Printers V3.](#)
- [V4 with Windows Update: Shared Printers Environment Point&Print Installation.](#)
- [V4 without Windows Update: Shared Printer without WU.](#)

Should you have any further questions or need additional assistance, please contact HP's IT team for specialized support in deploying drivers within your organization's infrastructure.