Technical white paper

Network and Analog Fax Separation in HP Inkjet and Pagewide MFP/AIO

HP Officejet Pro 276dw MFP
HP Officejet Pro X476dw MFP
HP Officejet Pro X476dn MFP
HP Officejet Pro X576dw MFP

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Overview

This document details the various systems and protocols that prevent communication between Network and Analog Fax traffic in HP MFPs. This design guarantees separation of Analog Fax and Network resources and their communications.

Network and Analog Fax Resource Separation

HP MFP architecture and design provide separation between the analog fax processing board and the network controller. System components that control the analog fax hardware have no functions to access the network hardware. Faxes from a phone line cannot be sent into the network, or influence other resources on the network.

Serial Fax Modem Access Limitations

The Analog Fax functions of the MFP are designed only to send and receive analog fax data for the MFP. The closed nature of analog fax firmware with its limited functionality does not provide a pathway or support for commands necessary to achieve network access.

Fax T.30 Protocol Limitations

Sending and receiving of data through the serial fax modem can only occur during an active fax session. A fax session can only be established between two fax modems that successfully negotiate common capabilities such as fax resolution, transmission speed, compression, and format.

Fax negotiation and communication uses the T.30 protocol, which is restricted to fax communications. A fax session cannot be negotiated for anything other than a fax transfer, so it is not possible for other components in or out of the system to use the modem for transferring data other than fax data.

Supported MFPs

The following HP MFPs use the detailed design for analog fax and network separation:

- HP Officejet Pro 276dw MFP
- HP Officejet Pro X476dw MFP
- HP Officejet Pro X476dn MFP
- HP Officejet Pro X576dw MFP

For more information

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4AA4-xxxxENW, Created Month 2013