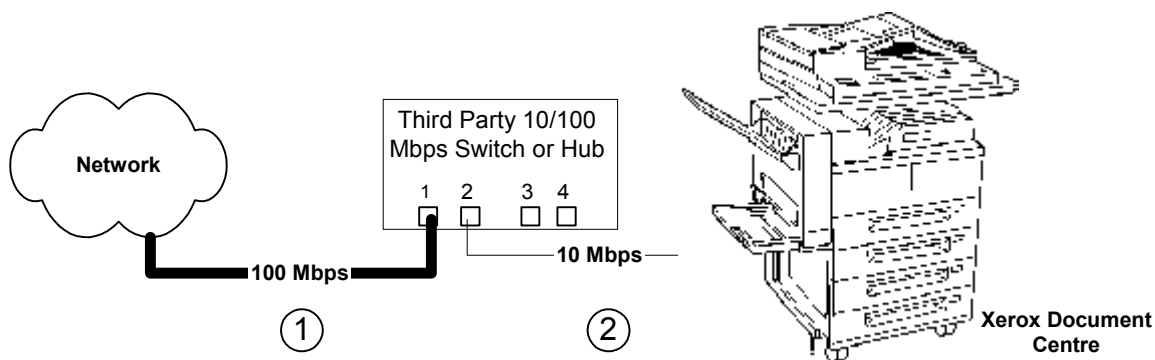


# Customer Tips

Dc99cc49  
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*... for the user*

## *100 Mbps Connectivity with the Document Centre*



### Issue

Many customers now have 100 Mbps Ethernet networks. Some Document Centre products work only with 10 Mbps Ethernet networks. This document provides a method for integrating a Document Centre into a 100 Mbps network. If the customer already has the equipment to support a 10 Mbps printer, the information in this document is not relevant. The solution presented in this document is intended for 100BaseTX networks only.

This document applies to these **Xerox** products:

	WC Pro 32/40 Color
	WC Pro 65/75/90
	WC Pro 35/45/55
	WC M35/M45/M55
	DC 555/545/535
	DC 490/480/470/460
	DC 440/432/425/420
x	DC 332/340
x	DC 265/255/240
x	DC 220/230
	DCCS 50

### Recommendation

Use a third-party 10/100 Mbps auto-sensing hub or switch to convert the 100 Mbps connection to 10 Mbps. This enables the Document Centre to connect over a 100 Mbps network.

**Important:**

All ports on the 10/100 Mbps hub or switch must have the ability to auto-sense 10 or 100 Mbps independently of each other.

## Requirements

- A third-party, dual speed 10/100 Mbps, auto-sensing hub or switch:
  - 4 or 8 port 10/100 Mbps hubs or switches are more commonly found and are inexpensive (under \$350.00 U.S. dollars).
  - Some well known manufacturers of 10/100 Mbps hubs and switches are Kingston, 3com, Black Box, and Nortel (Bay Networks).
- A live 100BaseTX port on the hub and a connection to the third-party hub or switch.
- If the third-party hub or switch has an MDI/X cascade switch as an uplink port, you need a straight through CAT5 cable. If it does not, you need a crossover CAT5 cable for the network to hub connection.
- One straight through CAT5 Ethernet patch cable.
- Power outlet (to plug in the 10/100 Mbps hub or switch).

## Supporting Information

Not all 100 Mbps technologies are the same. Currently, there are two 100 Mbps technologies, 100BaseTX and 100VG-AnyLan. These technologies are not compatible with each other because of the way they access the medium. Both technologies are backward compatible with 10BaseT.

**NOTE:** This solution is for 100BaseTX networks. Determine the technology in use. This solution will not work with 100VG-AnyLan networks.

## Installation

**NOTE:** The following steps are not a complete set of installation procedures. Refer to the third-party hub or switch documentation for installation procedures for the hub or switch.

1. Verify the connection between the network and the uplink port (see Cable 1 in the illustration on the previous page).
  - Refer to the hub or switch documentation to determine how the 10/100 Mbps hub or switch indicates the connection speed. You should see an indication of network connectivity (a LINK LED). Some hubs or switches also have an activity LED that indicates traffic on a specific port.
  - If the 10/100 Mbps hub or switch indicates a 10 Mbps connection, verify that you are actually connected to a 100 Mbps hub.
  - If the LINK LED on the 10/100 Mbps hub or switch does not illuminate, refer to the "Troubleshooting Tips" section of this document.
2. Run the straight through CAT5 patch cable from a free port (typically Port 2) on the 10/100 Mbps hub or switch to the Document Centre Ethernet port. See Cable 2 in the illustration on the previous page.
3. Install the Document Centre according to the customer documentation. Once the Document Centre is fully configured and on the network, the LINK LED on the port connected to the Document Centre illuminates.

**NOTE:** The Document Centre takes several minutes before connecting to the network after the power is turned on.

4. Submit a test job to verify connectivity.

## Troubleshooting Tips

- Make sure to use the correct cable to connect the hub or switch to the network as defined in the "Requirements" section earlier in this document.
- Refer to the 10/100 Mbps hub or switch documentation for additional troubleshooting.
- The LINK LED on the port connected to the Document Centre does not illuminate for several minutes. Do not be alarmed if you do not see immediate connectivity.
- If the LINK LED does not illuminate for the uplink port, test the connection with a network analyzer (such as Fluke OneTouch Network Assistant or another similar analyzer) and test the cable. If the connection and cable are good, try a different port on the 10/100 Mbps hub or switch. If the LINK LED still does not illuminate, determine if the path from the drop to the hub is defective.
- If the LINK LED does not illuminate for the port connected to the Document Centre, check that the Document Centre is on. Test the cable and verify the Document Centre is connected to the 10/100 Mbps hub or switch.

## Additional Information

Xerox Customer Service welcomes feedback on all documentation - send feedback via e-mail to: [USA.DSSC.Doc.Feedback@mc.usa.xerox.com](mailto:USA.DSSC.Doc.Feedback@mc.usa.xerox.com).

You can reach Xerox Customer Support at 1-800-821-2797 (USA), TTY 1-800-855-2880 or at <http://www.xerox.com>.

Other Tips about Xerox multifunction devices are available at the following URL: <http://www.xerox.com/DocumentCentreFamily/Tips>.

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