



# **Types of network ports**

## **ONTAP System Manager**

NetApp

December 14, 2020

# Table of Contents

Types of network ports ..... 1

# Types of network ports

The network ports are either physical ports or virtualized ports. Virtual local area networks (VLANs) and interface groups constitute the virtual ports. Interface groups treat several physical ports as a single port, while VLANs subdivide a physical port into multiple separate logical ports.

- Physical ports: LIFs can be configured directly on physical ports.
- Interface group: A port aggregate containing two or more physical ports that act as a single trunk port. An interface group can be single-mode, multimode, or dynamic multimode.
- VLAN: A logical port that receives and sends VLAN-tagged (IEEE 802.1Q standard) traffic. VLAN port characteristics include the VLAN ID for the port. The underlying physical port or interface group ports are considered VLAN trunk ports, and the connected switch ports must be configured to trunk the VLAN IDs.

The underlying physical port or interface group ports for a VLAN port can continue to host LIFs, which transmit and receive untagged traffic.

- Virtual IP (VIP) port: A logical port that is used as the home port for a VIP LIF. VIP ports are created automatically by the system and support only a limited number of operations.

The port naming convention is *enumberletter*:

- The first character describes the port type. "e" represents Ethernet.
- The second character indicates the numbered slot in which the port adapter is located.
- The third character indicates the port's position on a multiport adapter. "a" indicates the first port, "b" indicates the second port, and so on.

For example, `e0b` indicates that an Ethernet port is the second port on the node's motherboard. VLANs must be named by using the syntax `port_name-vlan-id`.

`port_name` specifies the physical port or interface group and `vlan-id` specifies the VLAN identification on the network. For example, `e1c-80` is a valid VLAN name.

## Copyright Information

Copyright © 2020 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

## Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.