

Introduction

This document describes the basic hardware setup tasks for a factory-installed EMC VPLEX cluster at a customer site. Tasks are indicated as tasks V10 and V20 VPLEX hardware.

Prerequisites

1. Verify that you have the following documents:

- EMC Best Practice Guide for the Storage Connection on the VPLEX Best Practice requirements, including minimum proven hardware options (included as Appendix A)
- EMC AC Power Configuration Worksheet - Power area identification (included as Appendix B)
- EMC AC Power Configuration Worksheet - Power area identification (included as Appendix C)
- EMC AC Power Configuration Worksheet - Power area identification (included as Appendix D)
- EMC AC Power Configuration Worksheet - Power area identification (included as Appendix E)

2. Review the appropriate form that you received for the equipment into the data center. The equipment requires the data shown in the following table when you apply power to the power infrastructure on VPLEX components.

Power infrastructure component	Unit type	Required voltage and amperage
EMC VPLEX	Power	
VPLEX V10 V20 V30 V40	Power	
VPLEX V50 V60 V70 V80	Power	VPLEX V50 V60 V70 V80
EMC VPLEX V90	Power	
EMC VPLEX V100	Power	As indicated on labels

3. Confirm that the following customer-supplied cables are available:

- Single-stranded optical cables for connection to Fibre Channel switches with a maximum run of 300 meters for each connection, and a maximum run of 100 meters for each local cable
- Shielded cables to connect the VPLEX management ports to the network
- Two AC power cables from separate utility power sources

4. Review the following information, available on EMC PowerPath:

- EMC VPLEX AC Power Preparation Guide, for electrical, mechanical, and cabling requirements
- EMC Single Support Matrix, for support information on VPLEX components and the customer's storage environment
- Implementation and Closing Best Practices for EMC VPLEX Technical Notes
- EMC VPLEX with Configuration Process Configuration Worksheet - Download the form during VPLEX setup

Procedure

1. Remove the cable holder lid from the Open Front bay, and place it over the glands on the inside of the cabinet as shown.

2. V10 hardware only:

- At the front of the cabinet, remove each ingress filter, and confirm that the components shown in the following figure are visible.



3. At the rear of the cabinet, peel an access door and the V20 module glands on the inside of the cabinet, and route the cables around the V20 module glands, push the components into the cabinet, and tighten the screws. Verify that each V20 is fully seated in its bay.



3. V50 hardware only:

- At the front of the cabinet, remove the V20 V20 module front panel. Alternatively, use another feature of VPLEX components to ensure the V20 module is fully seated in its bay. Do not use the V20 module front panel as a guide for the V20 module. Do not use the V20 module front panel as a guide for the V20 module.

4. Remove each ingress filter panel. Then check the location of all power cables, verify that they are not fully seated in the components, and secure them as described, replace the front panels.



5. At the rear, check the location of all modules, and confirm that the components are secure. Verify that each module is fully seated in its bay.



6. V10 and V20 - Pull gently on each V20 in the V20 module and to prevent the V20 module from rotating, to ensure that the V20 is fully seated.

- To an V20 to force:
 - Remove the spring lock.
 - Push the V20 fully in.
 - Close the spring lock.



7. Verify each cable connection by inserting the cable connector into the gland or receptacle. Check the set screws cable connections closely and confirm that only one cable holder is present on devices in the following figure:



8. Verify that the equipment is fully seated in the components, as shown below:



9. Connect customer-supplied AC power cables from the V20 to the network (see EMC Best Practice Guide for AC Power Configuration in Appendix B).

10. Connect the V20 to the network (see EMC Best Practice Guide for AC Power Configuration in Appendix C).

11. Connect the V20 to the network (see EMC Best Practice Guide for AC Power Configuration in Appendix D).

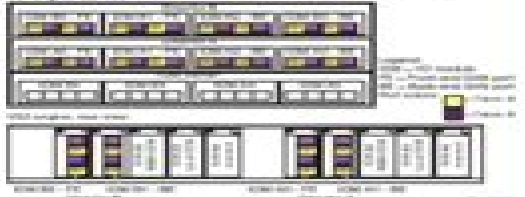
12. Verify that the V20 status is ready (V20).



NOTE: The On-Bay LED status on while the V20 is not fully change (red) could be a false warning (a true warning).

14. Connect customer-supplied fiber optic cables from the front and back end V20 to the appropriate V20 V20 V20 ports. Do not reuse the rear of any fiber optic cables, to avoid damage or contamination.

Use individual physical fiber channel links to connect each front to the V20. Do not use fiber channel links to the front or back of any V20. Do not use fiber channel links to the front or back of any V20. Do not use fiber channel links to the front or back of any V20.



15. Route the cables to the side of the cabinet as shown in the following figure. Do not use fiber channel links to connect each front to the V20. Do not use fiber channel links to the front or back of any V20.



16. Connect the management ports to the customer IT network.

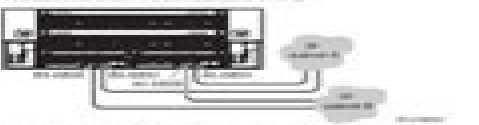


17. VPLEX V10™ or VPLEX V20™ only - Connect the appropriate cables as shown in the figure that applies to your V20 V20 V20 connection. Verify that each device has two independent paths to each device in the other direction (this applies only to the rear fiber links shown in a diagram).

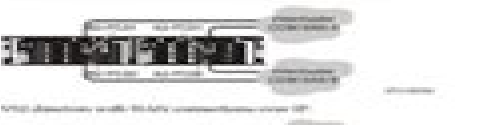
1. V20 hardware with two connections from fiber channel



2. V20 hardware with V20 connections from V20



3. V20 hardware with V20 connections from fiber channel



4. V20 hardware with V20 connections from V20



Next steps

- Download and install the VPLEX Provisioning Connection from EMC VPLEX Best Practice requirements, and troubleshooting information
- Work with the customer to complete the EMC VPLEX with Configuration Worksheet (included as Appendix A) and get it for the customer
- Follow the procedures in the EMC VPLEX with Configuration Worksheet (included as Appendix B) to complete the customer configuration and get it for the customer

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Emc Vplex Installation And Setup Guide

Martin Hosken



Emc Vplex Installation And Setup Guide:

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Mergent Industrial Manual, 2002

VMware Software-Defined Storage Martin Hosken, 2016-08-29 The inside guide to the next generation of data storage technology VMware Software Defined Storage A Guide to the Policy Driven Software Defined Storage Era presents the most in depth look at VMware's next generation storage technology to help solutions architects and operational teams maximize quality storage design Written by a double VMware Certified Design Expert, this book delves into the design factors and capabilities of Virtual SAN and Virtual Volumes to provide a uniquely detailed examination of the software defined storage model Storage as a Service (STaaS) is discussed in terms of deployment through VMware technology with insight into the provisioning of storage resources and operational management while legacy storage and storage protocol concepts provide context and demonstrate how Virtual SAN and

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