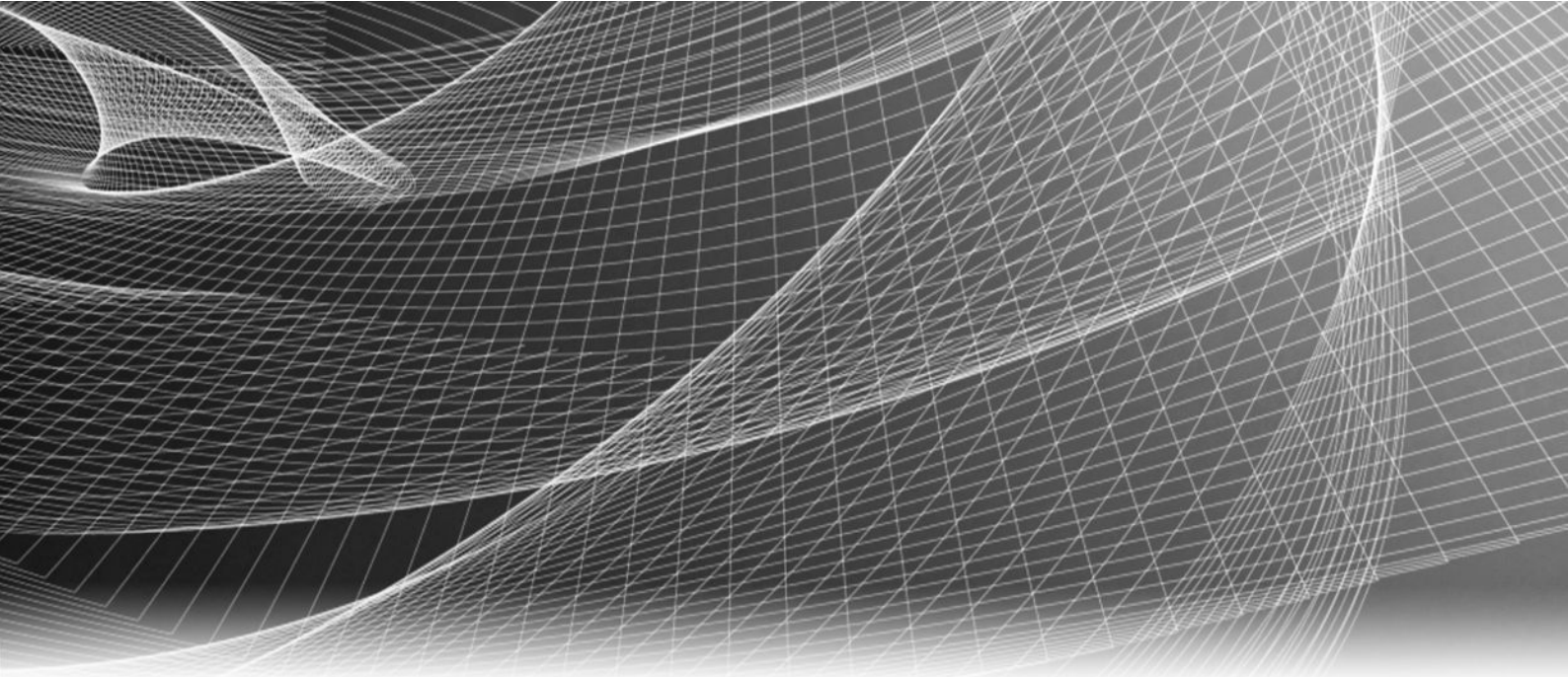




EMC[®] ViPR SRM

Version 3.5.0.0

Support Matrix

P/N 302-001-058

REV 03

Copyright © 2013-2014 EMC Corporation. All rights reserved. Published in USA.

Published June, 2014

EMC believes the information in this publication is accurate as of its publication date. The information is subject to change without notice.

The information in this publication is provided as is. EMC Corporation makes no representations or warranties of any kind with respect to the information in this publication, and specifically disclaims implied warranties of merchantability or fitness for a particular purpose. Use, copying, and distribution of any EMC software described in this publication requires an applicable software license.

EMC², EMC, and the EMC logo are registered trademarks or trademarks of EMC Corporation in the United States and other countries. All other trademarks used herein are the property of their respective owners.

For the most up-to-date regulatory document for your product line, go to EMC Online Support (<https://support.emc.com>).

EMC Corporation
Hopkinton, Massachusetts 01748-9103
1-508-435-1000 In North America 1-866-464-7381
www.EMC.com

CONTENTS

Chapter 1	System Requirements	5
	Operating system requirements.....	6
	Browser requirements.....	6
	Supported mobile devices.....	7
	Third-party tools.....	7
Chapter 2	Supported SolutionPacks	9
	ViPR SRM and SolutionPack compatibility.....	10
	SolutionPack for Brocade FC Switch.....	11
	SolutionPack for Cisco MDS/Nexus.....	13
	SolutionPack for Cisco UCS.....	13
	SolutionPack for Converged Infrastructure.....	14
	SolutionPack for EMC Atmos.....	14
	SolutionPack for EMC Centera.....	14
	SolutionPack for EMC Data Domain.....	14
	SolutionPack for EMC Data Protection Advisor.....	15
	SolutionPack for EMC Host Interface.....	15
	SolutionPack for EMC Isilon.....	15
	SolutionPack for EMC RecoverPoint.....	15
	SolutionPack for EMC ViPR.....	16
	SolutionPack for EMC VMAX.....	16
	SolutionPack for EMC VNX.....	16
	SolutionPack for EMC VPLEX.....	17
	SolutionPack for Hitachi Device Manager.....	18
	SolutionPack for HP 3PAR StoreServ.....	18
	SolutionPack for HP EVA.....	19
	SolutionPack for HP StorageWorks P9000.....	19
	SolutionPack for IBM DS.....	19
	SolutionPack for IBM LPAR.....	20
	SolutionPack for IBM SAN Volume Controller/Storwize.....	20
	SolutionPack for IBM XIV.....	21
	SolutionPack for Microsoft Hyper-V.....	21
	SolutionPack for NetApp Filer.....	21
	SolutionPack for Oracle Database.....	22
	SolutionPack for Physical Hosts.....	22
	SolutionPack for Microsoft SQL Server.....	24
	SolutionPack for Storage Compliance.....	24
	SolutionPack for VI VirtualWisdom.....	24
	SolutionPack for VMware vCenter.....	25
	SolutionPack for XtremIO.....	25

CHAPTER 1

System Requirements

This chapter includes the following topics:

◆	Operating system requirements	6
◆	Browser requirements	6
◆	Supported mobile devices	7
◆	Third-party tools	7

Operating system requirements

The following operating systems are supported for production.

Table 1 Supported operating systems

Operating system	Version
Red Hat Enterprise Linux	5, 64-bit 6, 64-bit
CentOS Linux	5, 64-bit 6, 64-bit
SUSE Linux Enterprise Server (SLES)	11, 64-bit
Microsoft Windows	- Server 2008 R2 - Server 2012 - Server 2012 R2

Note

vApp installations require VMware. Hyper-V, or any other virtual environment, is not supported for vApp installations.

Browser requirements

For the following browsers, support varies.

Table 2 Supported browsers

Browser	Version	Operating system	Notes
Google Chrome	Latest	Windows, Linux	Full support
Internet Explorer	8	Windows	Minimal Browse mode
Internet Explorer	9 and 10	Windows	Full support
Mozilla Firefox	Latest	Windows, Linux	Full support
Apple Safari	Latest	Mac OS X and iOS	Full support

Minimal Browse mode is for report viewing and browsing. It can display tables, including interactive tables, and graphs that are not interactive. Topology maps are not supported.

Full support includes report viewing and browsing, plus support for interactive tables and graphs, topology maps, and administration tasks (user management, enrichment GUI, alerting GUI, and so on).

Supported mobile devices

To manage the application and view reports, you can use any of the supported mobile devices.

Table 3 Supported mobile devices

Device	Version	Operating system	Notes
Apple iPhone	Latest	Mac iOS	Using APG iPhone client from AppStore
Apple iPad	Latest	Mac iOS	Using APG iPad client from AppStore

Third-party tools

The following tools may be required during installation.

Table 4 Supported browsers

Tools	Version	Notes
PuTTY	0.63	Minimum version required to support AES_CTR algorithms introduced in SP 1.

CHAPTER 2

Supported SolutionPacks

This chapter includes the following topics:

◆ ViPR SRM and SolutionPack compatibility.....	10
◆ SolutionPack for Brocade FC Switch.....	11
◆ SolutionPack for Cisco MDS/Nexus.....	13
◆ SolutionPack for Cisco UCS.....	13
◆ SolutionPack for Converged Infrastructure.....	14
◆ SolutionPack for EMC Atmos.....	14
◆ SolutionPack for EMC Centera.....	14
◆ SolutionPack for EMC Data Domain.....	14
◆ SolutionPack for EMC Data Protection Advisor.....	15
◆ SolutionPack for EMC Host Interface.....	15
◆ SolutionPack for EMC Isilon.....	15
◆ SolutionPack for EMC RecoverPoint.....	15
◆ SolutionPack for EMC ViPR.....	16
◆ SolutionPack for EMC VMAX.....	16
◆ SolutionPack for EMC VNX.....	16
◆ SolutionPack for EMC VPLEX.....	17
◆ SolutionPack for Hitachi Device Manager.....	18
◆ SolutionPack for HP 3PAR StoreServ.....	18
◆ SolutionPack for HP EVA.....	19
◆ SolutionPack for HP StorageWorks P9000.....	19
◆ SolutionPack for IBM DS.....	19
◆ SolutionPack for IBM LPAR.....	20
◆ SolutionPack for IBM SAN Volume Controller/Storwize	20
◆ SolutionPack for IBM XIV.....	21
◆ SolutionPack for Microsoft Hyper-V.....	21
◆ SolutionPack for NetApp Filer.....	21
◆ SolutionPack for Oracle Database.....	22
◆ SolutionPack for Physical Hosts.....	22
◆ SolutionPack for Microsoft SQL Server.....	24
◆ SolutionPack for Storage Compliance.....	24
◆ SolutionPack for VI VirtualWisdom.....	24
◆ SolutionPack for VMware vCenter.....	25
◆ SolutionPack for XtremIO.....	25

ViPR SRM and SolutionPack compatibility

This is a list of SolutionPacks compatible with ViPR SRM3.5.

Table 5 ViPR SRM and SolutionPack compatibility

Product	Version
EMC M&R	6.3
SolutionPack for EMC Atmos	2.0
SolutionPack for Brocade FC Switch	3.5
SolutionPack for Cisco MDS/Nexus	3.5
SolutionPack for Cisco UCS	1.1
SolutionPack for Converged Infrastructure	1.1
SolutionPack for EMC Centera	1.4
SolutionPack for EMC Data Domain	1.0
SolutionPack for EMC Data Protection Advisor	1.1
SolutionPack for EMC Host Interface	1.0.1
SolutionPack for EMC Isilon	3.5
SolutionPack for EMC RecoverPoint	1.0
SolutionPack for EMC VMAX	3.5
SolutionPack for EMC VNX	3.5
SolutionPack for EMC ViPR ^a	2.0
SolutionPack for EMC VPLEX	3.5
SolutionPack for EMC Watch4net Health	1.4
SolutionPack for EMC XtremIO	3.5
SolutionPack for Hitachi Device Manager	3.5
SolutionPack for HP 3PAR StoreServ	1.2.2
SolutionPack for HP EVA	1.1
SolutionPack for HP StorageWorks P9000	3.5
SolutionPack for IBM DS	1.0
SolutionPack for IBM LPAR	1.1
SolutionPack for IBM SAN Volume Controller/Storwize	1.0
SolutionPack for IBM XIV	3.5
SolutionPack for Microsoft Hyper-V	1.2.1
SolutionPack for NetApp Filer	3.5
SolutionPack for Oracle Database	1.3
SolutionPack for Physical Hosts	1.0.1

Table 5 ViPR SRM and SolutionPack compatibility (continued)

Product	Version
SolutionPack for Storage Compliance ^{b c}	3.0.1
SolutionPack for VI VirtualWisdom	1.0
SolutionPack for VMware vCenter	3.5

- a. The ViPR documentation is available at support.emc.com
- b. Policy Administration and EMC Support Matrix Administration reports are not supported in the minimal browse mode.
- c. The compliance rules support all the supported Hosts, ESX, VMs, EMC arrays (VMAX and VNX), and Brocade and Cisco fabrics.

SolutionPack for Brocade FC Switch

This is a list of prerequisites and communication port information for the supported Brocade Fabric models.

Generic-SNMP (Zoning through SMI-S)

Generic-SNMP discovers the switch topology information (switch details, switch ports), switch performance metrics), and SMI-S discovers zoning details.

Supported models ^{a b}	Collector	Prerequisites	Port
- Brocade 300, 4100, 4900, 5000, 5100, 5300, 5410, 5424, 5450, 5460, 5470, 5480, 7500, 7500E, 7600 - Brocade 7800 Extension Switch - Brocade 8000 FCoE Switch - Brocade Encryption Switch - Brocade DCX Backbone and Brocade DCX-4S Backbone: FA4-18 Fibre Channel application blade, FCOE10-24 DCX Blade, FS8-18 Encryption Blade, FC8-16 port blade, FC8-32 port blade, FC8-48 port blade, FC8-64 port blade - Fabric OS MIB Reference: 53-1001768-01, FC10-6 port blade, FR4-18i router blade, FX8-24 DCX Extension Blade ^c - Brocade 48000 director: FA4-18 Fibre Channel application blade, FC4-16 port blade, FC4-16IP, FC4-32 port blade, FC4-48 port blade, FC10-6 port blade, FR4-18i outer blade - Brocade VA-40FC	- XML Collector - SNMP Collector	All Brocade switches that are running FOSv4.x or higher.^d SNMP compliant with FC-MGMT MIB. Providers:^e - CMCNE/BNA^{f g} 11.1.x, 11.2.1, 12.0.x and 12.1.2. - CMDCE/DCFM 10.4.x	The SNMP default port is 161.

- a. Discovery of switch partition feature is not supported.
- b. Performance Metrics will not be collected for Brocade AG Devices.
- c. Discovery support is limited to FC ports; discovery of other protocols or routing is not supported.
- d. CPU Utilization and Memory Utilization will not be populated for Brocade switches running at firmware version below FOS 6.3. Fabric Watch license should be installed on the switches to fetch CPU and Memory utilization metrics.
- e. Discovery is limited to FC blades. Discovery supports only the E, F, and G ports on the blades. ViPR SRM does not support Administrative Domains features.
- f. CMCNE can be deployed using the SMI Agent only option (headless).
- g. All versions of CMCNE/BNA - Storage Resource Management Suite does not support Single Sign On and Launch-in-Context.

SMI-S Only

SMI-S only is used to discover the switch topology information (switch details, switch ports), switch performance metrics, and zoning details.

Table 6 Supported models for Brocade fabric

Supported models	Collector	Prerequisites
Refer to the CMDCE User Guide: EMC Connectrix Manager Converged Network Edition or Data Center Edition Professional, Professional Plus, and Enterprise User Guide P/N 300-009-237	XML ^{a b c d e}	CMCNE/BNAG 11.1.x, 11.2.1, 12.0.x and 12.1.2. CMDCE/DCFM 10.4.x For all versions of CMCNE/BNA, ViPR SRM do not support Single Sign On and Launch-in- Context.

Table 6 Supported models for Brocade fabric

Supported models	Collector	Prerequisites
REV A08		

- Performance Metrics will not be collected for Brocade AG Devices.
- Discovery support is limited to FC ports; discovery of other protocols or routing is not supported.
- Discovery is limited to FC blades. Discovery supports only the E, F, and G ports on the blades. ViPR SRM does not support Administrative Domains features.
- CPU Utilization and Memory Utilization will not be populated for Brocade switches when discovered through SMI-S.
- Name Server Database, Ethernet ports details are not discovered.

SolutionPack for Cisco MDS/Nexus

This is a list of prerequisites and communication port information for the supported Cisco fabric models.

Table 7 Supported models for Cisco fabric

Supported model ^{a bc}	Collector	Prerequisites	Port
- Cisco MDS (9120, 9124, 9134, 9140, 9148, 9216, 9222i, 9506, 9509, 9513) - Cisco ONS (15201, 15202) - Cisco Nexus (5548, 1000V)	Generic-SNMP	The following Cisco MIBs are needed: - cisco-entity-fru-control-mib - cisco-entity-sensor-mib - cisco-fc-fe-mib - cisco-fcs-mib - cisco-vsan-mib	SNMP (default port is 161)

- Discovery is limited to FC ports only.
- ViPR SRM does not support Cisco device aliases or Cisco enhanced device aliases.
- ViPR SRM does not support discovery of VDC (virtual device context) and Fabric extenders.

SolutionPack for Cisco UCS

This is a list of prerequisites and communication port information for the supported Cisco UCS models.

Table 8 Supported models of Cisco UCS

Supported model	Collector	Prerequisites	Port
- Cisco UCS Manager 2.0 and higher - Cisco UCS C-Series (CIMC) 1.4 and higher	XML-Collector		80 or 443

SolutionPack for Converged Infrastructure

This is a list of the supported versions of Converged Infrastructure.

Table 9 Supported versions of Converged Infrastructure

Supported model	Collector	Prerequisites	Port
- UIM/Provisioning - 4.0 and up - UIM/Operations - 4.0 and up	XML-Collector		443 (HTTPS)

SolutionPack for EMC Atmos

Table 10 Support information for Atmos arrays

Supported model	Collector	Prerequisites	Port
Atmos 2.1.5.0	XML Collector using REST APIs	Atmos System Management Interface	8080 443/8443

SolutionPack for EMC Centera

This is a list of prerequisites for the supported Centera versions.

Table 11 Supported versions of EMC Centera

Supported model	Collector	Prerequisites	Port
EMC Centera	Text-Collector	Centera Viewer CLI (v4.3)	

SolutionPack for EMC Data Domain

This is a list of prerequisites and communication port information for the supported versions of Data Domain.

Table 12 Supported versions of Data Domain

Supported model	Collector	Prerequisites	Port
EMC Data Domain (SNMP enabled)	Generic-SNMP	If you are updating from an older version, ensure that the SolutionPack block Generic-SNMP is updated to version 1.2 or newer.	SNMP

SolutionPack for EMC Data Protection Advisor

This is a list of supported versions of DPA.

Table 13 Supported versions of DPA

Supported version	Collector	Prerequisites	Port
DPA 6.0	XML Collector	None	9004 (http) or 9002 (https)

SolutionPack for EMC Host Interface

Table 14 Supported hosts in SolutionPack for EMC Host Interface

Supported model ^a	Collector	Prerequisites	Port
- Microsoft Windows Server 2003 - Windows 2008 SP2 - Windows 2008 R2 - Windows 2008 R2 core - Windows 2012 - Windows 2012 core	XML Collector	EMC Host Interface installed on the host.	Default ports are 5988 and 5889 (secure)

a. Only 64 bit platforms are supported.

SolutionPack for EMC Isilon

This is a list of prerequisites and communication port information for the supported Isilon versions.

Table 15 Supported versions of Isilon

Supported model	Collector	Prerequisites	Port
Isilon 7.0 and higher	REST API	None	HTTPS (default is port 8080)

SolutionPack for EMC RecoverPoint

This is a list of supported versions of RecoverPoint.

Table 16 Supported versions of RecoverPoint

Supported version	Collector	Prerequisites	Port
RecoverPoint 4.0 and higher	XML-Collector		

SolutionPack for EMC ViPR

This is a list of prerequisites for the supported EMC ViPR versions.

Table 17 Supported versions for EMC ViPR

Supported model	Collector	Prerequisites	Port
ViPR 1.1.0.1.44	XML Collector	ViPR 1.1.0.1.44	NA

SolutionPack for EMC VMAX

This is a list of prerequisites for the supported EMC VMAX models.

Table 18 Supported models and prerequisites

Supported model	Collector	Prerequisites
DMX -3 series	Topology Collector	Solutions Enabler 7.6.2.8 and later
- DMX-4 series - DMX-4 950 series	Performance Collector using Unisphere for VMAX	Unisphere for VMAX 1.6.2 and later
- VMAX series - VMAX SE series	Performance Collector using SMI-S	SMI-S Provider 4.6.2 and later

iSCSI Gatekeepers are supported.

As of the 3.5 release, many statistics are available through both SMI-S and Unisphere. However if both SMI-S and Unisphere are present, ViPR SRM does not collect overlapping statistics from both sources. Rather, if both are present, overlapping statistics are always collected only through Unisphere. In this case only the LUN statistics will come from SMI-S. There are not two sets of same-named but inconsistent statistics.

SolutionPack for EMC VNX

This is a list prerequisites and communication port information for the supported EMC VNX models.

Table 19 Supported models of EMC VNX

Supported model	Collector	Prerequisites	Port	Method
- CLARiiON CX4 (CX4-xxx with FLARE R30, R31, R32) - VNX Operating Environment for Block R32 or later - VNX 5100, 5300, 5500, 5700, 5800, 7500, 8000; Block	Text-Collector VNX - Block storage data is collected through Navisecli (the VNX	Navisphere CLI commands are used to communicate with the VNX. EMC recommends matching Navisphere CLI versions with the Block Operating Environment versions of VNX systems configured in the SolutionPack. For example: If the firmware version of the Block side is 05.32.x, Navisphere CLI 7.32.x or higher should be used.	443	

Table 19 Supported models of EMC VNX (continued)

Supported model	Collector	Prerequisites	Port	Method
OE 05.31, 05.32, 05.33; OE 7.0, 7.1, 8.1 VNXe 3200; OE 3.0	API) and file storage data is collected from four collectors consisting of various scripts VNXe - The VNXe REST API is used to collect block and file data	For more information on compatible Block OE and Navisphere CLI versions, see the <i>VNX OE for Block Release Notes</i> and the <i>Unisphere Host Agent/CLI and Utilities Release Notes</i> located on EMC Online Support.		
- VNX Operating Environment for File 7.0 or later - VNX Gateway Operating Environment for File 7.0 or later (VG2, VG8) - Celerra DART 5.6 and 6.0 (NX4, NS-120, NS-480, NS-960)	Text-Collector XML-Collector	XML API available ssh access to VNX-File / Celerra with an “operator” user. SSH access is needed between VNX Collector host and Control Station to download files in /tmp/w4n_data via SFTP.	22, 80 & 443	CLI (SSH) XML API

Note

CIFS Ops/s and Top 5 CIFS users reports are supported with Operating Environment for File 7.1 or later.

SolutionPack for EMC VPLEX

This is a list of prerequisites and communication port information supported for the VPLEX versions.

Table 20 Supported versions of VPLEX

Supported model	Collector	Prerequisites	Port
- Standalone (single cluster): 5.1.x, 5.2.x, 5.3.x - Metro/Geo (dual cluster): 5.1.x, 5.2.x, 5.3.x	VPLEX CLI via SSH (TCP/ 22) with the ViPR SRM Text Output Collector to collect performance data	CLI access permission	SSH (TCP/ 22)

SolutionPack for Hitachi Device Manager

This is a list of the supported HDS models.

Table 21 Supported models of HDS devices

Supported model	Collector	Prerequisites	Port
Command suites - Hitachi Command Suite 7 and higher - Hitachi Tuning Manager Devices - AMS200 - AMS2100 - USP_V - HDS9970V	XML-Collector	HiCommand Device manager 7.3 or higher	

SolutionPack for HP 3PAR StoreServ

This is a list of prerequisites and communication port information for the supported HP 3PAR models.

Table 22 Supported models of HP 3PAR

Supported models	Collector	Prerequisites	Port
F200 F400 S400X V400 T400 T800 Supported versions of the firmware are: 2.3.1, 3.1.1, and 3.1.2. Versions at 2.2 and lower are not supported.	Text-Collector		22(SSH)

SolutionPack for HP EVA

This is a list of the supported HP EVA models.

Table 23 Supported models of HP EVA

Supported model	Collector	Prerequisites	Port
HP EVA 3000, 4x00, 5000, 6000, 6x00, 8000, 8x00	XML-Collector	SMI-S CV EVA full version Command View 9.02	CIMOM Port 5988/5989 should be open bi-directionally between Collector host and Command View host

SolutionPack for HP StorageWorks P9000

Table 24 Support information for HP StorageWorks P9000 arrays

Supported model	Collector	Prerequisites	Port
- P9500 - XP24K/20K - XP12K/10K/SVS200 - XP1024/128	XML-Collector	HP Command View 7.5 or greater installed on the host.	XML/API (2001)

SolutionPack for IBM DS

This is a list of prerequisites and communication port information for the supported IBM DS models.

Table 25 Supported models of IBM DS

Supported model	Collector	Prerequisites	Port
- DS 3000 Series - DS 4000 Series - DS 5000 Series	XML-Collector	Storage Manager IBM SMI-S provider	5988 (http) or 5989 (https)
- DS 6000 Series - DS 8000 Series			

SolutionPack for IBM LPAR

Support information for IBM LPAR.

Table 26 HMC Data Collection: P Server details

Supported model	Collector	Prerequisites	Port
All P Series servers HMC version = 6,7	Text Collector	Installation of the SolutionPack for IBM LPAR, providing credentials of the Hardware management Console (HMC)	Port 22

Table 27 LPAR (VIOS/VIOC) Data Collection

Supported model	Collector	Prerequisites	Port
IBM AIX 6.1, 7.1 Linux: Redhat 5.x, 6.x SuSE 10.x, 11.x	Generic - RSC	Installation of the SolutionPack for Physical Host. padmin user credentials are not required to discover VIO Servers. INQ 7.6.1.0 is available from ftp:// ftp.emc.com/pub/symm3000/inquiry/ ^a perl interpreter 5.6.1 or higher	Port 22

a. Contact Customer Support if you have problems accessing this FTP site.

Additional information

- ♦ VIO Servers are discovered using sudo credentials
- ♦ VIO Clients are discovered using SSH public/private key pair, sudo, and root credentials.
- ♦ INQ is pushed to both VIO Servers and Clients.

SolutionPack for IBM SAN Volume Controller/Storwize

This is a list of the supported IBM SAN Volume Controller/Storwize models.

Table 28 Supported models

Supported model	Collector	Prerequisites	Port
- IBM SVC V5.1 and above - IBM Storwize V3700, V7000 V6.4 and above	XML-Collector		XML API

SolutionPack for IBM XIV

This is a list of the supported IBM XIV models.

Table 29 Supported models of IBM XIV devices

Supported model	Collector	Prerequisites	Port
IBM XIV	XML-Collector	CIM Agent running	5989 (for SSL)

SolutionPack for Microsoft Hyper-V

This is a list of the supported Microsoft Hyper-V models.

Note

This SolutionPack can only be installed on a Windows collector host

Table 30 Supported models of Microsoft Hyper-V

Supported model	Collector	Prerequisites	Port
- Hyper-V on Windows 2012 R2 is not supported - Hyper-V on Windows Server 2008 R2 Service Pack 1 or newer - Hyper-V Server 2008 Hyper-V Server 2008 or newer	XML-Collector	Requires PowerShell	

SolutionPack for NetApp Filer

This is a list of prerequisites and communication port information for the supported NetApp Filer models.

Table 31 Supported models of NetApp Filer

Supported model	Collector	Prerequisites	Port
- NetApp Filer 7-mode on Ontap v7 or higher - NetApp Filer C-mode on Ontap v8 or higher	Text-Collector		SSH (default port is 22)

Note

The cluster management IP must be provided during C-Mode Filer discovery.

SolutionPack for Oracle Database

This is a list of prerequisites and communication port information for the SolutionPack for Oracle Database

Table 32 Supported versions of Oracle database

Supported model	Collector	Prerequisites	Port
Oracle 10 and greater		The latest JDBC driver jar file needs to be in the folder .../APG/Databases/JDBC-Drivers/ Default/lib Currently the required driver is ojdbc5.jar	

SolutionPack for Physical Hosts

This is a list of hosts supported by ViPR SRM.

Supported hosts

Table 33 Supported hosts

Supported model	Collector	Prerequisites ^a	Port
- HPUX 11iv1 11.11 - HPUX 11iv2 11.23 - HPUX 11iv3 11.31	SSH	PowerPath 5.2 must be installed on the host to fetch PowerPath metrics. INQ 7.6.1.0 is available from ftp://ftp.emc.com/pub/symm3000/inquiry/ . Contact Customer Support if you have problems accessing this FTP site. perl interpreter 5.6.1 or higher	Port 22
IBM AIX 5.1, 5.2, 5.3, 6.1, 7.1	SSH	PowerPath 5.7 b194 must be installed on the host to fetch PowerPath metrics. INQ 7.6.1.0 is available from ftp://ftp.emc.com/pub/symm3000/inquiry/ . Contact Customer Support if you have problems accessing this FTP site. perl interpreter 5.6.1 or higher	Port 22
- LINUX RHEL AS/ES 4.x, 5.x, 6.x - LINUX SUSE ES 9, ES 9.3, ES 10.x, ES 11.x - CentOS 5.x, 6.x	SSH	PowerPath 5.7 must be installed on the host to fetch PowerPath metrics. INQ 7.6.1.0 is available from ftp://ftp.emc.com/pub/symm3000/inquiry/ . Contact Customer Support if you have problems accessing this FTP site.	Port 22

Table 33 Supported hosts (continued)

Supported model	Collector	Prerequisites ^a	Port
MPIO reports are supported on Windows and Linux only.		perl interpreter 5.6.1 or higher	
- Microsoft Windows Server 2003 - Microsoft Windows Server 2003 R2 SP2 - Microsoft Windows Server 2003 SP2 - Microsoft Windows Server 2008 Core - Microsoft Windows Server 2008 SP1 - Microsoft Windows Server 2008 SP2 - Microsoft Windows Server 2008 R2 - Microsoft Windows Server 2012 Standard, Enterprise and Datacenter versions Multipath I/O for Windows Server 2008, Windows Server 2012 MPIO reports are supported on Windows and Linux only.	WinRM, WS-MAN	PowerPath 5.7 must be installed on the host to fetch PowerPath metrics. Requires PowerShell 2.0 INQ 7.6.1.0 is required for Windows 2003 only Fcinfo.exe is required for Windows 2003 hosts^b	5986 (HTTPS) 5985 (HTTP) Refer to the ViPR SRM Ports Usage and Worksheet for more information on port configuration.
Solaris 9, 10, 11, SVM, VxVM, zfs	SSH	PowerPath 5.5 P02 HF02 must be installed on the host to fetch PowerPath metrics. INQ 7.6.1.0 is available from ftp://ftp.emc.com/pub/symm3000/inquiry/ . Contact Customer Support if you have problems accessing this FTP site. perl interpreter 5.6.1 or higher	Port 22

a. The PowerPath Support Matrix on EMC Online Support Site provides more details.

b. fcinfo.exe is available from <http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=17530> . Use the latest version and default install location recommended by Windows.

SolutionPack for Microsoft SQL Server

Table 34 Supported versions

Supported models	Collector	Prerequisites	Port
- SQL Server 2008R2 - SQL Server 2012	SQL collector	- SQL authentication requires that the user be a member of the SYSADMIN group - Windows user account requires the user be a member of the Guests group or the Domain Guests group - The default database must be the master - Windows user account must be imported into the Microsoft SQL Server with settings similar to these: - Server roles of public - Securable grants for Connect SQL, View any definitions, and View server state	

SolutionPack for Storage Compliance

This SolutionPack is not used for discovery, so this category of information is not applicable.

SolutionPack for VI VirtualWisdom

This is a list of supported versions of VI VirtualWisdom.

Table 35 Supported versions of VI VirtualWisdom

Supported version	Collector	Prerequisites	Port
VI VirtualWisdom v3.x (supported version greater than 3.4.3)	XML-Collector	VirtualWisdom WebServices API	webservices port number (default 8080)

SolutionPack for VMware vCenter

This is a list of supported versions of VMware vCenter.

Table 36 Supported versions of VMware vCenter

Supported version	Collector	Prerequisites	Port
VMware vCenter Server and ESX(i) must be 4.1 or later, although 5.1 or later is recommended.	VMware Collector	VMware infrastructure. PowerPath/VE 5.8 or later must be installed on the host to fetch PowerPath metrics.	443

SolutionPack for XtremIO

Table 37 Support information for EMC XtremIO arrays

Supported model	Collector	Prerequisites	Port
XtremIO 2.4 and greater	JSON Collector	N/A	Default HTTPS port (443)

