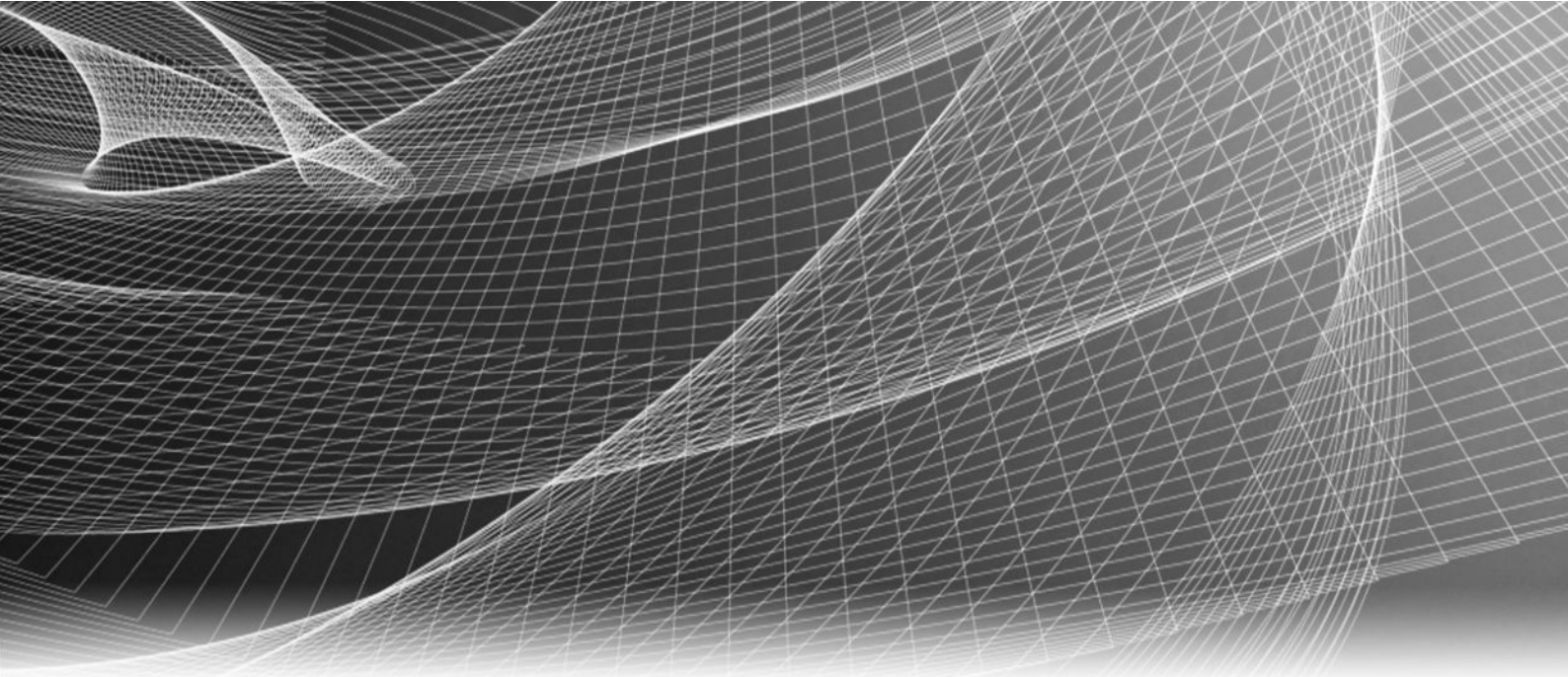




EMC[®] ViPR SRM

Version 3.5.1

Support Matrix

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REV 01

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CHAPTER 1

System Requirements

This chapter includes the following topics:

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◆	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:

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◆ SolutionPack for Cisco MDS/Nexus.....	13
◆ SolutionPack for Cisco UCS.....	14
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ViPR SRM and SolutionPack compatibility

This is a list of SolutionPacks compatible with ViPR SRM3.5.1.

Table 5 ViPR SRM and SolutionPack compatibility

Product	Version
EMC M&R	6.4u1
SolutionPack for Brocade FC Switch	3.5.1
SolutionPack for Cisco MDS/Nexus	3.5.1
SolutionPack for Cisco UCS	1.1.1
SolutionPack for Converged Infrastructure	1.1
SolutionPack for EMC Atmos	2.0.1
SolutionPack for EMC Centera	1.4.1
SolutionPack for EMC Data Domain	1.0
SolutionPack for EMC Data Protection Advisor	1.1
SolutionPack for EMC Host Interface	1.0.2
SolutionPack for EMC Isilon	3.5.1
SolutionPack for EMC RecoverPoint	1.1
SolutionPack for EMC ScaleIO	1.0
SolutionPack for EMC VMAX	3.5.1
SolutionPack for EMC VNX	3.5.1
SolutionPack for EMC ViPR	2.0.1
SolutionPack for EMC VPLEX	3.5.1
SolutionPack for EMC Watch4Net Health	1.4.1
SolutionPack for XtremIO	3.5.1
SolutionPack for Hitachi Device Manager	3.5.1
SolutionPack for HP 3PAR StoreServ	3.5.1
SolutionPack for HP EVA	1.1
SolutionPack for HP StorageWorks P9000	3.5.1
SolutionPack for IBM DS	1.0
SolutionPack for IBM LPAR	1.1
SolutionPack for IBM SAN Volume Controller/Storwize	1.1
SolutionPack for IBM XIV	3.5.1
SolutionPack for Microsoft Hyper-V	1.2.2
SolutionPack for Microsoft SQL Server	1.1

Table 5 ViPR SRM and SolutionPack compatibility (continued)

Product	Version
SolutionPack for NetApp Filer	3.5.1
SolutionPack for Oracle Database	1.3.1.1
SolutionPack for Physical Hosts	1.1.1
SolutionPack for Storage Compliance	3.5.1
SolutionPack for VI VirtualWisdom	1.0
SolutionPack for VMware vCenter	3.5.1

SolutionPack for Storage Compliance

Policy Administration and EMC Support Matrix Administration reports are not supported in the minimal browse mode.

SolutionPack for EMC ViPR

The ViPR documentation is available at support.emc.com.

SolutionPack for Brocade FC Switch

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

SMI-S only

Discovers switch topology, performance and zoning details completely through SMI-S. This is the recommended discovery approach.

Table 6 Support for Brocade fabric

Supported models	Collector	Prerequisites
For the supported models, refer the User Guide of EMC Connectrix Manager Converged Network Edition or Data Center Edition	XML	CMCNE/BNA 11.1.x, 11.2.1, 12.0.x and 12.1.x. CMDCE/DCFM 10.4.x For all versions of CMCNE/BNA, ViPR SRM do not support Single Sign On and Launch-in- Context.

ViPR SRM does not support Administrative Domains features.

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.

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

SNMP + SMI-S (Zoning only through SMI-S)

Discover switch topology and performance metrics through SNMP. SNMP does not support zoning discovery. Restrict SMI-S discovery to zoning details only.

This discovery approach is supported for backward compatibility with previous versions.

Table 7 Support for Brocade fabric

Supported models	Collector	Prerequisites	Port
All Brocade switches that are running FOSv4.x or higher.	XML Collector SNMP Collector	Supported MIBs: SW-MIB FCMGMT-MIB FIBRE-CHANNEL-FE-MIB IANAifType-MIB IF-MIB IP-MIB RFC1213-MIB SNMPv2-SMI-MIB Providers: CMCNE/BNA 11.1.x, 11.2.1, 12.0.x and 12.1.x CMDCE/DCFM 10.4.x Some switch models might not have all the MIBs listed and in that case those capabilities will not be discovered. [	The SNMP default port is 161.

Performance Metrics will not be collected for Brocade AG Devices.

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.

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.

All versions of CMCNE/BNA - ViPR SRM does not support Single Sign On and Launch-in-Context.

Discovery support is limited to FC ports; discovery of other protocols or routing is not supported.

SolutionPack for Cisco MDS/Nexus

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

Table 8 Supported models for Cisco fabric

Supported model	Collector	Prerequisites	Port/ Protocol
- Cisco MDS (9xxx) - Cisco ONS (1520x) - Cisco Nexus (5548, 1000V)	Generic-SNMP	Supported MIBs: - CISCO-FLASH-MIB - CISCO-NS-MIB - CISCO-DM-MIB - CISCO-ENTITY-SENSOR-MIB - ENTITY-MIB - CISCO-FC-FE-MIB - IF-MIB - CISCO-ENTITY-FRU-CONTROL-MIB - CISCO-VSAN-MIB - CISCO-DM-MIB - CISCO-ZS-MIB - CISCO-SYSTEM-EXT-MIB - SNMPv2-MIB - CISCO-FCS-MIB - CISCO-FEATURE-CONTROL-MIB Some switch models might not have all of the listed MIBs and in that case those capabilities will not be discovered.	SNMP (default port is 161)

Note

The following points apply to all of the supported models:

1. Discovery is limited to FC ports only.
2. ViPR SRM does not support Cisco device aliases or Cisco enhanced device aliases.
3. 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 9 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 10 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 11 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 12 Supported versions of EMC Centera

Supported model	Collector	Prerequisites	Port
EMC Centera	Stream-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 13 Supported versions of Data Domain

Supported model	Collector	Prerequisites	Port
EMC Data Domain	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 must be enabled.	SNMP

SolutionPack for EMC Data Protection Advisor

This is a list of supported versions of DPA.

Table 14 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 15 Supported hosts in SolutionPack for EMC Host Interface

Supported Operating Systems	Collector	Prerequisites	Port/Protocol
- Windows Server 2003 - Windows 2008 SP2 - Windows 2008 R2 - Windows 2008 R2 core - Windows 2012 - Windows 2012 core 32 bit support: - Windows 2003 - Windows 2008	XML Collector	Supported Windows OS	Default ports are 5988/TCP and 5989/TCP (secure)

SolutionPack for EMC Isilon

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

Table 16 Supported versions of Isilon

Supported model/OS	Collector	Prerequisites	Port/Protocol
Any EMC Isilon Array running Isilon 7.0 and higher	REST API	None	HTTPS (default is 8080/TCP)

SolutionPack for EMC RecoverPoint

This is a list of supported versions of RecoverPoint.

Table 17 Supported versions of RecoverPoint

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

SolutionPack for EMC ScaleIO

This is a list of prerequisites and communication port information for the SolutionPack for EMC ScaleIO.

Table 18 Supported versions of ScaleIO

Supported model	Collector	Prerequisites	Port
ScaleIO 1.30 or later	Stream Collector using REST APIs	ScaleIO REST gateway should be installed on the host and should be configured with ScaleIO MDM (Meta Data Manager).	Default HTTPS port (443)

SolutionPack for EMC ViPR

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

Table 19 Support for EMC ViPR

Supported model	Collector	Prerequisites	Port
ViPR 2.0.0.0.860	XML Collector, Stream Collector	ViPR 1.1.0.1.44	4443 (API)

SolutionPack for EMC VMAX

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

Table 20 Supported models and prerequisites

Supported model	Collector	Prerequisites
- DMX -3 series - DMX-4 series - DMX-4 950 series - VMAX series - VMAX SE series	Topology Collector	Solutions Enabler 7.6.2.8 and later
	Performance Collector using Unisphere for VMAX	Unisphere for VMAX 1.6.2 and later Provides more overall performance metrics than SMI-S Provider but does not include LUN performance metrics.
	Performance Collector using SMI-S	SMI-S Provider 4.6.2 and later Provides fewer overall performance metrics than UniSphere but includes LUN performance metrics

Comments

iSCSI Gatekeepers are supported.

If performance metrics are desired, then you must install UniSphere for VMAX or the SMI Provider, or both.

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 of prerequisites and communication port information for the EMC VNX support.

Table 21 Support for EMC VNX

Supported Software	Prerequisites	Port	Method
Operating Environment for Block ("FLARE"): 04.30 05.31 or higher* Used with CLARiiON, VNX1, and VNX2 models.	Navisphere CLI at the same or newer version to the OE for Block version (see Comments below).	443	CLI
VNX Operating Environment for File 7.0 or later	XML API available	22, 80 & 443	CLI (SSH) XML API

Table 21 Support for EMC VNX (continued)

Supported Software	Prerequisites	Port	Method
Celerra DART 5.6 and 6.0 Used with Celerra, VNX1, and VNX2 models			

Comments

To collect performance data for VNX MetaLUNs with Operating Environment for Block ("FLARE") 05.32, version 05.32.000.5.209 or higher must be used

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

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. For more information on compatible Block OE and Navisphere CLI versions, see the "VNX OE for Block Release Notes" and the "Unisphere Host Agent/CLI and Utilities Release Notes" located on EMC Online Support.

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.

Table 22 Support for EMC VNXe

Supported Software	Prerequisites	Port	Method
OE 3.0 (Block and File) Used with second generation VNXe modules as of VNXe3200 First generation VNXe models such as VNXe3100, VNXe3150, and VNXe3300 are not supported.	N/A	443	REST API

SolutionPack for EMC VPLEX

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

Table 23 Support for VPLEX

Support models and software	Collector	Prerequisites	Port
5.2.x or newer of Standalone (single cluster) and Metro/Geo	Stream Collector	REST API access, CLI access, and Virtual Volume Perpetual monitor logs (for PLEX 5.3.x or newer only).	HTTPS (TCP/443) SSH (TCP/22)

Table 23 Support for VPLEX (continued)

Support models and software	Collector	Prerequisites	Port
	Text Collector	CLI access and Director Perpetual monitor logs	SSH (TCP/22)

SolutionPack for Hitachi Device Manager

This is a list of the supported HDS models.

Table 24 Support for HDS devices

Supported models and software	Collector	Prerequisites	Port
- AMS200 - AMS2100 - USP and USP_V - HUS and VSP	Stream Collector	Hitachi Command Suite 7.4.1 or higher (full license; core license is not adequate)	2001 (XML API) 5988/5989 (SMI-S)

Comments

SolutionPack for HP 3PAR StoreServ

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

Table 25 Support for HP 3PAR

Supported models and firmware	Collector	Prerequisites	Port
F200	Text-Collector		22 (SSH)
F400	Stream Collector	CIM server has been started. Use <code>startcim</code> command on the CLI to start the CIM server	5988/5989 (SMI-S)
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.			

SolutionPack for HP EVA

This is a list of the supported HP EVA models.

Table 26 Support for HP EVA

Supported models and software	Collector	Prerequisites	Port
HP EVA 3000, 4x00, 5000, 6000, 6x00, 8000, 8x00	XML-Collector	SMI-S Command View EVA 9.02 full version	Ports 22 (SSH) and CIMOM ports 5988/5989 should be open bi-directionally between Collector host and Command View host. Use port 5989 while configuring this SolutionPack.

SolutionPack for HP StorageWorks P9000

Table 27 Support for HP StorageWorks P9000 arrays

Supported models and software	Collector	Prerequisites	Port
- P9500 - XP24K/20K - XP12K/10K/SVS200 - XP1024/128	Stream Collector	HP Command View Advanced Edition Suite 7.4.1 or later installed on the host (full license; core license is not adequate)	2001 (XML/API) 5988/5989 (SMI-S)

SolutionPack for IBM DS

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

Table 28 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 running	5988 (http) or 5989 (https)
- DS 6000 Series - DS 8000 Series			

SolutionPack for IBM LPAR

Support information for IBM LPAR.

Table 29 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 30 LPAR (VIOS/VIOC) Data Collection

Supported model	Collector	Prerequisites	Port
IBM AIX 6.1, 7.1	Generic - RSC	Installation of the SolutionPack for Physical Host.	Port 22

Table 30 LPAR (VIOS/VIOC) Data Collection

Supported model	Collector	Prerequisites	Port
Linux: Redhat 5.x, 6.x SuSE 10.x, 11.x		padmin user credentials are not required to discover VIO Servers. INQ 7.6.1.0 is available from ftp.emc.com/pub/symm3000/inquiry/. Contact Customer Support if you have problems accessing this FTP site. perl interpreter 5.6.1 or higher	

Additional information

- ◆ Solution Pack for IBM LPAR will collect information only from HMC.
- ◆ To discover VIO Server and LPAR information, use Solution Pack for Physical Hosts.
- ◆ 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 31 Supported models

Supported model	Collector	Prerequisites	Port
- IBM SVC V5.1 and above - IBM Storwize V3700, V7000 V6.4 and above	XML-Collector	IBM SMI-S Provider running	5989 (https) and SSH (default is 22/TCP).

SolutionPack for IBM XIV

This is a list of the supported IBM XIV models.

Table 32 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 33 Support for Microsoft Hyper-V

Supported models and software	Collector	Prerequisites	Port
- Hyper-V on Windows Server 2008 R2 Service Pack 1 or newer - Hyper-V Server 2008 Hyper-V Server 2008 or newer - Hyper-V on Windows 2012 R2	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 34 Supported for NetApp Filer

Supported models and software	Collector	Prerequisites	Port/Protocol
- NetApp Filer 7-mode on Ontap v7 or higher - NetApp Filer C-mode on Ontap v8 or higher	Text-Collector		SSH (default is 22/TCP)

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 35 Support for Oracle databases

Supported models	Collector	Prerequisites	Port
Oracle 10 and greater	SQL-Collector	The appropriate JDBC driver jar file needs to be in the folder .../APG/Databases/JDBC-Drivers/Default/lib Work with your DBA to determine the appropriate JDBC driver based on the installed version of Oracle. Download the JDBC driver from www.oracle.com/technetwork/database/features/jdbc ORACLE database user credentials are required	1521 (TCP)

SolutionPack for Physical Hosts

This is a list of hosts supported by ViPR SRM.

Supported hosts

Table 36 Supported hosts

Supported models	Collector	Prerequisites	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.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 MPIO reports are supported on Windows and Linux only.	SSH	PowerPath 5.7 must be installed on the host to fetch PowerPath metrics. INQ 7.6.1.0 is available from 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
- 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	WinRM, WS-MAN	PowerPath 5.7 must be installed on the host to fetch PowerPath metrics. Requires PowerShell 2.0 or greater INQ 7.6.1.0 is required for Windows 2003 only Fcinfo.exe is required for Windows 2003 hosts	5986 (HTTPS) 5985 (HTTP) Refer to the ViPR SRM Ports Usage and Worksheet for more information on port configuration.

Table 36 Supported hosts (continued)

Supported models	Collector	Prerequisites	Port
- Microsoft Windows Server 2008 SP2 - Microsoft Windows Server 2008 R2 - Microsoft Windows Server 2012 - Microsoft Windows Server 2012 R2 Standard, Enterprise and Datacenter versions Multipath I/O for Windows Server 2008, Windows Server 2012 MPIO reports are supported on Windows and Linux only.			
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.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

Comments

This SolutionPack currently does not identify LUNs from the Hitachi AMS200 array.

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

Windows: 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.

Due to the unavailability of WWN using in-band SCSI mechanisms accessible to the hosts, the software cannot match the LUNs associated with an array to the disks from the hosts.

SolutionPack for Microsoft SQL Server

Table 37 Support for Microsoft SQL Server

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

Table 38 Support for Storage Compliance

Supported versions	Collector	Prerequisites	Port
Compliance rules support all the supported Hosts, ESX, VMs, EMC arrays (VMAX and VNX), third party arrays (HDS, IBM XIV, NetApp, XtremIO), Brocade and Cisco fabrics.		Data needs to be discovered as part of individual collection.	
Compliance Path Redundancy rule is currently supported for ESX environments and PowerPath enabled devices on physical hosts.		For all Path-based rules to be validate and return accurate results, all the components in the Path of SAN domain needs to be discovered.	
ESM rules are not supported for third-party arrays.			

SolutionPack for VI VirtualWisdom

This is a list of supported versions of VI VirtualWisdom.

Table 39 Support for VI VirtualWisdom

Supported versions	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 40 Supported versions of VMware vCenter

Supported version	Collector	Prerequisites	Port/ Protocol
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. Access to VCENTER user credentials, with a minimum privilege level of Browse DataStore and all StorageViews.	443/TCP

SolutionPack for XtremIO

Table 41 Support information for EMC XtremIO arrays

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

