

Dell EMC VxRail Appliance

Version 4.5.x and 4.7.x

API User Guide

Rev 03

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CHAPTER 1

Introduction

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About this guide

This document describes the API for the VxRail Appliance, including VxRail Appliance software versions 4.5.x and 4.7.x.

This document incorporates and supercedes information from previous VxRail API guides, including the *VxRail 4.5 API Guide* and the *VxRail 4.5.2xx API Guide*.

Revision history

The following table lists revision history for the VxRail Appliance API User Guide.

Table 1 Revision history

Revision Number	Date	Description
03	June 27, 2019	Updated for VxRail Appliance Software 4.7.200 plus minor updates and corrections.
02	January 22, 2019	Updated for VxRail Appliance software 4.7.100 and minor corrections.
01	December 14, 2018	Initial release.

VxRail documentation

The following table lists available documents about VxRail Manager and VxRail Appliances.

Table 2 VxRail Documentation

Document	Description
SolVe Online for VxRail	(Login required) Step-by-step instructions for procedures such as replacing hardware or performing system administrative tasks are available through SolVe Online and the SolVe Desktop application. For more information about SolVe for VxRail, refer to KB 525271 .
VxRail Appliance 4.7.x Administration Guide	This document describes the VxRail Appliance 4.7.xxx, how it works, and how to perform administrative tasks.
VxRail 4.7.x Release Notes	(Login required) This document contains a brief description of VxRail Manager 4.7.xxx releases, including lists of known issues and workarounds.
VxRail Support Matrix	This document provides information about supported software, firmware, and hardware versions for Dell EMC VxRail appliances based on Dell PowerEdge hardware, including the E Series, P Series, S Series, and V Series.
VxRail Appliance Owner's Manuals	These documents describe the various VxRail appliances, including their physical features and technical specifications.

Table 2 VxRail Documentation (continued)

Document	Description
<ul style="list-style-type: none"> • VxRail Appliances on 14th Generation PowerEdge Servers P Series, V series, and S Series Owner's Manual • VxRail Appliances on 14th Generation PowerEdge Servers E Series Owner's Manual • VxRail G560 and G560F Owner's Manual • VxRail 60 Series Appliance Owner's Manual • VxRail 100 Series and 200 Series Appliance Owner's Manual • VxRail G Series Appliance Owner's Manual 	
<p>VxRail Appliance Getting Started Guides</p> <ul style="list-style-type: none"> • VxRail G560 and G560F Getting Started Guide • VxRail E Series Appliance Getting Started With Your Appliance • VxRail P Series, S Series, and V Series Appliances Getting Started With Your Appliance 	<p>These documents describe considerations for unpacking and preparing to install VxRail appliances.</p>
<p>VxRail Appliance API User Guide</p>	<p>This document describes the API for the VxRail Appliance versions 4.5.x and 4.7.x.</p>
<p>VxRail Event Code Reference</p>	<p>This reference guide lists the alert and event codes generated by VxRail Manager.</p>
<p>VxRail Security Configuration Guide</p>	<p>This guide provides an overview of the configuration, deployment, and usage settings needed to ensure secure operation of the VxRail Appliance.</p>
<p>VxRail Appliance STIG Compliance Guide</p>	<p>This document provides guidance on the secure installation and secure use of the VxRail Appliance for the DoDIN Approved Products List (APL) Deployment Configuration.</p>
<p>VxRail vCenter Server Planning Guide</p>	<p>This planning guide discusses guidance for the various vCenter Server deployment options supported on VxRail Appliances.</p>
<p>VxRail Planning Guide for Virtual SAN Stretched Cluster</p>	<p>This planning guide provides better insights into the requirements necessary for VxRail to implement Virtual SAN Stretched Cluster.</p>
<p>vSAN 2-Node Cluster on VxRail Planning Guide</p>	<p>This guide provides information for the planning of a VMware vSAN 2-Node Cluster infrastructure on a VxRail platform. (Not for VCF on VxRail solution deployments.)</p>
<p>VxRail Networking Guide with Dell EMC S4148-ON Switches</p>	<p>The deployment guide covers the process of connecting a cluster of VxRail nodes to Dell EMC Networking S4148-ON switches in a high-availability configuration.</p>
<p>VxRail Network Planning Guide</p>	<p>This is a network planning and consideration guide for the VxRail. It provides valuable insight into supported switch requirements and the networking required to support VxRail.</p>

Table 2 VxRail Documentation (continued)

Document	Description
Networking Guides > VxRail Networking Solutions	The networking guides provided on this website assist with the deployment of your infrastructure and the optimal connectivity of your Dell EMC Networking products. Click VxRail Networking Solutions for specific VxRail solutions.
VxRail Fabric Automation SmartFabric Services User Guide	This solution brief provides an overview of how VxRail works with HCI network fabrics using Dell OS10 Enterprise Edition SmartFabric services. (Not for VCF on VxRail solution deployments.)

CHAPTER 2

Getting Started

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VxRail API base URL

The base URL for the VxRail API is: `https://<VxM_IP>/rest/vxm/v1/`.

<VxM_IP> is the network IP address of the VxRail Appliance. The base URL is for a single VxRail cluster only. For customer-supplied vCenters with multiple clusters, each cluster has its own distinct base URL.

Authentication

The VxRail API uses the VMware vCenter or Platform Services Controller (PSC) single sign on (SSO) for authentication.

Use your vCenter username and password to log into the VxRail API. The API passes the credentials to the vCenter/PSC for authentication.

The following authorization method is configured for the VxRail REST API:

- HTTP Basic authentication

VxRail Manager and the VxRail API do not provide management of vCenter user accounts. Manage your credentials using vSphere.

CHAPTER 3

VxRail system status

The VxRail API supports checking the system status including health, heartbeat, available nodes, and job status.

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GET /system

Retrieves VxRail Manager system information.

URL

```
https://<VxRail IP address>/rest/vxm/v1/system
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHNlc2FtZQ==`

Response

200

Successful operation.

Example value:

```
{
  "description": "A hyper-converged infrastructure appliance that combines VMware compute, networking and storage into one single system for ease of deployment and management.",
  "version": "4.7.000-5969304",
  "installed_time": 1528275533,
  "health": "Critical",
  "network_connected": true,
  "vc_connected": true,
  "upgrade_status": "LATEST",
  "installed_components": [
    {
      "name": "Dell PTAgent",
      "description": "Dell PTAgent installed on ESXi",
      "current_version": "1.0-0",
      "upgrade_status": "LATEST",
      "baseline": "1.0-0",
      "installed_time": 1528275533,
      "incompatibilities": []
    },
    {
      "name": "VMware ESXi",
      "description": "VMware ESXi is the industry-leading, purpose-built bare-metal hypervisor. ESXi installs directly
```

```

onto your physical server enabling it to be partitioned into
multiple logical servers referred to as virtual machines.",
  "current_version": "6.5.0-5969303",
  "upgrade_status": "LATEST",
  "baseline": "6.5.0-5969303",
  "installed_time": 1528275533,
  "incompatibilities": [
    "VMware vCenter Server 4.0.0-7434890"
  ]
},
{
  "name": "VxRail Manager",
  "description": "The management component that
orchestrates the deployment and management of VxRail system.",
  "current_version": "4.7.000-5969303",
  "upgrade_status": "LATEST",
  "baseline": "4.7.000-5969303",
  "installed_time": 1528275533,
  "incompatibilities": []
},
{
  "name": "VMware vCenter Server Appliance",
  "description": "Centralized visibility, proactive
management and extensibility for VMware vSphere from a single
console VMware vCenter Server provides a centralized platform
for managing your VMware vSphere environments, so you can
automate and deliver a virtual infrastructure with confidence.",
  "current_version": "6.5.0-5973321",
  "upgrade_status": "LATEST",
  "baseline": "6.5.0-5973321",
  "installed_time": 1528275533,
  "incompatibilities": []
},
{
  "name": "VxRail Manager VIB",
  "description": "VxRail Manager agent installed on ESXi.",
  "current_version": "4.5.0-5018707",
  "upgrade_status": "LATEST",
  "baseline": "4.5.0-5018707",
  "installed_time": 1528275533,
  "incompatibilities": []
}
]
}

```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

404

The VxRail Manager system info is not found.

500

Unexpected internal server error.

GET /system-health

Get the current system health of the cluster.

URL

```
https://<VxRail IP address>/rest/vxm/v1/system-health
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Deprecate d	Deprecate d	No	No

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpwcmVudHNlc2FtZQ==`

Responses

200

The system health has been successfully returned.

```
{
  "string": "Healthy"
}
```

The possible responses include "Healthy", "Critical", "Error", and "Warning".

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

404

No system health information is found.

500

Failed with internal errors.

GET /support/heartbeat

Retrieves the last heartbeat status and data.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/heartbeat
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

Response

200

Heartbeat status and data successfully returned.

```
{
  "id": "1,",
  "status": "SUCCESS,",
  "target": "Appliance-EMCVB150600013,",
  "beginTime": "2017-11-17T05:18:33.039Z,",
  "endTime": "2017-11-17T05:18:33.098Z,",
  "message": "OK,",
  "data": "the content of heartbeat syr configuration"
}
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Unexpected internal server error.

DarksiteForbidden

This feature may be unavailable because VxRail Manager is disconnected from the Internet.

GET /callhome/mode

Retrieves the call home mode status.

URL

```
https://<VxRail IP address>/rest/vxm/v1/callhome/mode
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvcmVudHJlc2FtZQ==`

Response

200

Call home status successfully returned.

```
{
  "is_muted": true
}
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Failed with internal errors.

PUT /callhome/mode

Changes the call home mode status.

URL

```
https://<VxRail IP address>/rest/vxm/v1/callhome/mode
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHNlc2FtZQ==`

CallHomeSettingsSpec

```
description: To indicate callhome mode is muted or unmuted.
type: object
required:
  - is_muted
properties:
  is_muted:
    description: To indicate callhome mode is muted or
unmuted.
    type: boolean
    example: false
```

Response

200

Operation successful.

400

The call home parameters are not valid.

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Failed with internal errors.

GET /callhome/info

Retrieves information about the callhome servers.

URL

```
https://<VxRail IP address>/rest/vxm/v1/callhome/info
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters**Authorization**

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHNlc2FtZQ==`

Response

200

Call home operation status successfully returned.

```
{
  status: 'registered'
  integrated: true
  site_id: '11145366'
  ip_list:
    - ip: '10.62.81.111'
      primary: true
}
```

401

Unauthorized request.

403

Forbidden request.

404

Resource not found.

CallhomeNotFound

```
{
  "errorCode": 4,
  "message": "No callhome information found. Callhome may not
be registered."
}
```

500

Failed with internal errors.

POST /callhome/deployment

Deploys an internal callhome server.

URL

```
https://<VxRail IP address>/rest/vxm/v1/callhome/deployment
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

CallHomeDeploySpec

(Required) Details for the SRS to be deployed.

```
properties:
  ip:
    type: string
    example: 10.62.83.114
  site_id:
    type: string
    example: '11145366'
  first_name:
    type: string
    example: VxRail
  last_name:
    type: string
    example: emc
  email:
    type: string
```

```
example: vxrail.test@emconlinesupport.com
phone:
  type: string
  example: 1508435-1000
company:
  type: string
  example: EMC CORP-PARTNER
root_pwd:
  type: string
  example: password123!
admin_pwd:
  type: string
  example: Testvxrail123!
```

Response

202

The request has been accepted for processing.

```
{
  "request_id": "SBI_11"
}
```

400

Bad request

401

Unauthorized request.

403

Forbidden request.

500

Unexpected internal error.

InvalidAdminPassword

```
{
  "errorCode": 11,
  "message": "Invalid admin account's password. Please refer to
ESRS password specification and try again."
}
```

AlreadyRegistered

```
{
  "errorCode": 16,
  "message": "There was an external ESRS registered already."
}
```

IpFormmatError

```
{
  "errorCode": 6,
  "message": "IP format is not valid."
}
```

IpNetworkAddress

```
{
  "errorCode": 9,
  "message": "Network IP address is not supported."
}
```

IpBroadcastAddress

```
{
  "errorCode": 10,
  "message": "Broadcast IP address is not supported."
}
```

IpPingableError

```
{
  "errorCode": 8,
  "message": "This IP is not available, please try another one."
}
```

MandatoryAttrrsMissing

```
{
  "errorCode": 17,
  "message": "Mandatory attributes missing. Please check if the mandatory attributes of the request provided."
}
```

POST /callhome/internal/register

Activates and registers an internal callhome server.

URL

```
https://<VxRail IP address>/rest/vxm/v1/callhome/internal/register
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request**Parameters****Authorization**

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

AccessCodeSpec

(Required) Access code for activating an internal callhome server.

`access_code`

```
{
  type: string
  example: '11145366'
}
```

Response**202**

The request has been accepted for processing, but the processing has not been completed.

```
{
  "request_id": "SBI_11"
}
```

400

Bad request

401

Unauthorized request.

403

Forbidden request.

500

Unexpected internal error.

CallhomeNotDeployed

```
{
  "errorCode": 12,
  "message": "Could not register internal callhome at this
time. Callhome not deployed yet, please deploy internal first."
}
```

POST /callhome/external/register

Registers the external callhome server(s).

URL

```
https://<VxRail IP address>/rest/vxm/v1/callhome/external/
register
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYGVuIHh1c2FtZQ==`

ExternalCallhomeRegisterSpec

(Required) Details of the external callHome server(s) to register.

site_id

```
{
  type: string
  example: '11145366'
}
```

ip_list

```
{
  type: array
  items:
    type: string
    example:
      - 192.168.106.121
}
```

```

    - 192.168.106.122
  }

```

support_username

(Optional) If support account is not logged in, this will be required.

```

{
    type: string
    example: vxrail.test@emconlinesupport.com
}

```

support_pwd

(Optional) If support account is not logged in, this will be required.

```

{
    type: string
    example: password
}

```

Response

200

Operation successful.

```

{
  "site_id": "11145366",
  "ip_list": [
    {
      "ip": "10.62.81.111",
      "success": true,
      "primary": true
    },
    {
      "ip": "10.62.81.112",
      "success": true,
      "primary": false
    }
  ]
}

```

400

Bad request

401

Unauthorized request.

403

Forbidden request.

500**Unexpected internal error.**

SupportNotLogIn

```
{
  "errorCode": 3,
  "message": "Support account not log in."
}
```

AlreadyRegistered

```
{
  "errorCode": 15,
  "message": "There is an internal ESRS registered already."
}
```

IpFormmatError

```
{
  "errorCode": 6,
  "message": "IP format is not valid."
}
```

IpNotPinganle

```
{
  "errorCode": 7,
  "message": "External ESRS 10.62.85.1 cannot be connected.
Please check if the ESRS VE is powered on or if there is any
network problem."
}
```

SiteIdError

```
{
  "errorCode": 13,
  "message": "The Site ID is not in the accepted range."
}
```

DeviceNotSupport

```
{
  "errorCode": 14,
  "message": "Failed to register VxRail to ESRS. Please check
that VxRail is in the support list."
}
```

POST /callhome/access-code

Generates an access code to activate the internal callhome server.

URL

```
https://<VxRail IP address>/rest/vxm/v1/callhome/access-code
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

Response

200

Operation successful.

401

Unauthorized request.

403

Forbidden request.

500

Unexpected internal error.

CallhomeNoteActivated

```
{
  "errorCode": 2,
  "message": "Could not generate access code, please deploy an
ESRS VE and wait for activation start."
}
```

DELETE /callhome/disable

Unregisters the callhome server(s), and destroys it if it is an internal callhome server.

URL

```
https://<VxRail IP address>/rest/vxm/v1/callhome/disable
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpwcmVudHNlc2FtZQ==

Response

200

Operation successful.

401

Unauthorized request.

403

Forbidden request.

500

Unexpected internal error.

GET /requests

Queries all of the requests.

URL

```
https://<VxRail IP address>/rest/vxm/v1/requests
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request**Parameters****Authorization**

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYGVuIHNlc2FtZQ==`

\$filter

Query conditions for requests.

The following operators are supported: equal (eq), in (in), not equal (ne), greater than (gt), less than (lt), greater or equal to (ge), less or equal to (le) on the following fields: id, state, owner, target, step.

Example:

```
$filter=owner eq 'LOG_BUNDLE' and state in ('COMPLETED', 'IN_PROGRESS')
```

Response**200**

Successful operation.

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Unexpected internal server error.

GET /requests/<requestID>

Retrieves the operation status and progress report of the specified request.

URL

```
https://<VxRail IP address>/rest/vxm/v1/requests/<requestID>
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request**Parameters****Authorization**

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYGVuIHh1c2FtZQ==`

id

(Required) The request ID of any long running operation.

Response**200**

Successful operation.

```

properties:
  id:
    description: Each asynchronous (long-running) request
    needs to return a requestId which can be used to get the status
    of execution.
    type: string
  owner:
    description: Define the owner of the request which is
    typically the user who issue the original request
    type: string
  state:
    description: Define the current state of the execution
    type: string
    enum:
      - IN_PROGRESS
      - COMPLETED
      - FAILED
  error:
    description: Define the error message if the execution
    state is ERROR
    type: string
  progress:
    description: Define the progress of the current
    execution, ranging from 0 to 100
    type: integer
  start_time:
    description: Define the start time of the current
    execution
    type: integer
    format: int64
  end_time:
    description: Define the end time of the current
    execution
    type: integer
    format: int64
  target:

```

```

description: Define the target of the current execution
type: string
step:
description: Define the current step if the original
request has been separated into multiple steps
type: string
detail:
description: The detailed status of a specific
application.
type: string
extension:
description: The application specific status
information.
type: string
    
```

- 401**
Username/password is not recognized.
- 403**
The user is not allowed due to insufficient privilege.
- 404**
The provided ID was not found.
- 500**
Unexpected internal server error.

GET /system/internet-mode

Retrieves VxRail Manager system network status.

URL

```
https://<VxRail IP address>/rest/vxm/v1/system/internet-mode
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpwVGVuIHNlc2FtZQ==`

Response

200

Successful operation.

Example value:

```
{
  "is_dark_site": false
}
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Unexpected internal server error.

PUT /system/internet-mode

Updates the VxRail Manager system network parameters.

URL

```
https://<VxRail IP address>/rest/vxm/v1/system/internet-mode
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

DarkSiteSettingsSpec

(Required) To indicate if the system network is a dark site or not.

```
required:
  - is_dark_site
```

```

properties:
  is_dark_site:
    description: To indicate system network is darksite or
not.
    type: boolean

```

Response

200

Successful operation.

Example value:

```

{
  "is_dark_site": false
}

```

400

Invalid request parameters.

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Unexpected internal server error.

GET /system/proxy

Retrieves the VxRail Manager system proxy settings.

URL

```

https://<VxRail IP address>/rest/vxm/v1/system/proxy

```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

Response

200

Successful operation.

Example value:

```
{
  "server": "192.168.106.108",
  "port": 3128,
  "username": "",
  "type": "SOCKS",
  "socks_version": 5
}
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

404

Resource not found.

```
{
  "message": "Could not find proxy settings."
}
```

500

Unexpected internal server error.

NetworkTimeout

```
Network connection timed out.
```

General Description

```
Unexpected internal server error.
```

POST /system/proxy

Enables VxRail Manager system proxy settings.

URL

```
https://<VxRail IP address>/rest/vxm/v1/system/proxy
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpwcmVudHNlc2FtZQ==`

ProxySettingsSpec

(Required) Details of the proxy settings that want to set and update.

```
required:
- proxy_spec
properties:
  esrs_pwd:
    description: Password of the esrs. When there is
    internal esrs enabled, password will be required since proxy
    will be set in esrs side together.
    type: string
    example: ESRS_PASSWORD
  proxy_spec:
    description: Details of the proxy.
    type: object
    required:
    - server
    - port
    - type
    properties:
      server:
        description: server/hostname of the proxy address.
        type: string
        example: 10.1.1.1
      port:
        description: Port of the proxy.
        type: integer
        example: 80
      username:
        description: Username of the proxy credential.
        type: string
      pwd:
        description: Password of the proxy credential.
```

```

    type: string
  type:
    description: Type of the proxy. HTTP/SOCKS.
    type: string
    example: HTTP
  socks_version:
    description: Socks version of the SOCKS. Only
mandatory if the proxy type is SOCKS.
    type: integer

```

Response

200
Successful operation.

400
Invalid request parameters.
IncorrectProxyFormat

```

{
  "message": "Proxy settings are not correct. Proxy server and
port are mandatory and username and password are optional."
}

```

401
Username/password is not recognized.

403
The user is not allowed due to insufficient privilege.

500
Unexpected internal server error.
NetworkTimeout

```

Network connection timed out.

```

General Description

```

Unexpected internal server error.

```

ServerCannotConnect

```

{
  "message": "The proxy server provided cannot be connected to."
}

```

Socks4NotSupportDNS

```
{
  "message": "Proxy SOCKS4 does not support DNS resolving,
please configure your upstream DNS server."
}
```

ProxyCannotSetWithEnabledProxy

```
{
  "message": "Set proxy failed. There is already enabled proxy,
please use update instead."
}
```

PATCH /system/proxy

Updates VxRail Manager system proxy settings.

URL

```
https://<VxRail IP address>/rest/vxm/v1/system/proxy
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvcmVudG91IHN1c2FtZQ==`

ProxySettingsSpec

(Required) Details of the proxy settings that you want to set and update.

```
required:
- proxy_spec
properties:
  esrs_pwd:
    description: Password of the esrs. When there is
internal esrs enabled, password will be required since proxy
will be set in esrs side together.
    type: string
    example: ESRS_PASSWORD
```

```

proxy_spec:
  description: Details of the proxy.
  type: object
  required:
    - server
    - port
    - type
  properties:
    server:
      description: server/hostname of the proxy address.
      type: string
      example: 10.1.1.1
    port:
      description: Port of the proxy.
      type: integer
      example: 80
    username:
      description: Username of the proxy credential.
      type: string
    pwd:
      description: Password of the proxy credential.
      type: string
    type:
      description: Type of the proxy. HTTP/SOCKS.
      type: string
      example: HTTP
    socks_version:
      description: Socks version of the SOCKS. Only
      mandatory if the proxy type is SOCKS.
      type: integer

```

Response

200

Successful operation.

400

Invalid request parameters.

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Unexpected internal server error.

NetworkTimeout

```
Network connection timed out.
```

General Description

```
Unexpected internal server error.
```

ServerCannotConnect

```
{
  "message": "The proxy server provided cannot be connected to."
}
```

Socks4NotSupportDNS

```
{
  "message": "Proxy SOCKS4 does not support DNS resolving,
please configure your upstream DNS server."
}
```

ProxyCannotSetWithEnabledProxy

```
{
  "message": "Set proxy failed. There is already enabled proxy,
please use update instead."
}
```

DELETE /system/proxy

Disables VxRail Manager system proxy settings.

URL

```
https://<VxRail IP address>/rest/vxm/v1/system/proxy
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcmVudH1c2FtZQ==

EsrsPasswordSpec

The password for ESRS

```
description: Specification of esrs password.
type: object
properties:
  esrs_pwd:
    description: Password of ESRS.
    type: string
```

Response

200

Successful operation.

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Unexpected internal server error.

NetworkTimeout

```
Network connection timed out.
```

General Description

```
Unexpected internal server error.
```

POST /system/validate-credential

Validates the supplied user credentials.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/validate-credential
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	No	No	Yes	Yes

Request**Parameters****Authorization**

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

credentialSpec

(Required) Credentials input for validation.

VxRailCredentialSpec

The access information for VxRail Manager

VcenterCredentialSpec

The access information for vCenter.

EsxiHostCredentialSpec

The access information for the ESXi host.

WitnessNodeCredentialSpec

The access information for the witness node.

Response**200**

Operation successful.

400

Invalid request parameters.

401

Unauthorized request.

403

Forbidden request.

500

Unexpected internal server error.

Example:

```
[
  {
    "errorCode": 1016,
    "message": "Invalid credential for vc root account."
  },
]
```


401
Unauthorized request.

403
Forbidden request.

500
Unexpected internal server error.

Example:

```
[
  {
    "component": "psc",
    "hostname": "exvc113.externalvc.com",
    "status": "Success"
  },
  {
    "component": "esxi",
    "hostname": "dellb08237-01.externalvc.com",
    "status": "Failed",
    "message": "Failed to update the password in VxRail Manager
database."
  }
]
```

GET /system/available-hosts

Retrieves information on available hosts in the VxRail cluster.

URL

```
https://<VxRail IP address>/rest/vxm/v1/system/available-hosts
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvcmVudHh1c2FtZQ==`

\$filter

Query conditions for searching for the host.

Supported fields:

- id
- appliance_id
- slot
- model
- is_primary_node
- bios_uuid
- cluster_affinity

Supported operators:

- eq: equal
- ne: not equal

Example:

```
$filter=id eq VXRAILVIP470F2-01-01 and slot ne 2
```

Response

200

Operation successful.

Example

```
[
  {
    "id": "VXRAILVIP470F2-01-01",
    "appliance_id": "VXRAILVIP470F2",
    "slot": 1,
    "model": "VxRail P470F",
    "is_primary_node": false,
    "ip_set": {},
    "discovered_date": 1533460206,
    "cluster_affinity": false,
    "bios_uuid": "420e8b96-4602-9d96-35b9-906808c40985"
  },
  {
    "id": "VXRAILVIP470F1-01-01",
    "appliance_id": "VXRAILVIP470F3",
    "slot": 1,
    "model": "VxRail P470F",
    "is_primary_node": true,
    "ip_set": {},
    "discovered_date": 1533460206,
    "cluster_affinity": false,
    "bios_uuid": "420ecd88-86ef-f775-f4d8-a101540bb5c4"
  }
]
```

401

Unauthorized request.

403

Forbidden request.

404

Host not found.

500

Unexpected internal server error.

GET /system/cluster-hosts

Retrieves information on configured hosts in the VxRail cluster.

URL`https://<VxRail IP address>/rest/vxm/v1/system/cluster-hosts`**Version support**

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters**Authorization**

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpwcmVudGVudGVudDpjb2FuZG91`**\$filter**

Query conditions for searching for the host.

Supported fields:

- id
- host_name
- appliance_id
- slot
- model
- is_primary_node
- bios_uuid
- cluster_affinity

Supported operators:

- eq: equal

- ne: not equal

Example:

```
$filter=id eq VXRAILVIP470F2-01-01 and slot ne 2
```

Response

200

Operation successful.

Example

```
[
  {
    "id": "VXRAILVIP470F2-01-01",
    "serial_number": "9HHNHL2",
    "psnt": "9HHNHL20000000",
    "host_name": "delle09156-01.localdomain.local",
    "appliance_id": "VXRAILVIP470F2",
    "slot": 1,
    "manufacturer": "Dell Inc.",
    "model": "VxRail P470F",
    "operational_status": "powering_off",
    "health": "Error",
    "power_status": "on",
    "led_status": "Blue:On",
    "tpm_present": false,
    "is_primary_node": true,
    "missing": false,
    "ip_set": {
      "management_ip": "192.168.106.182",
      "vsan_ip": "192.168.113.182",
      "vmotion_ip": "192.168.123.182"
    },
    "discovered_date": 1533460206,
    "cluster_affinity": true,
    "bios_uuid": "420e8b96-4602-9d96-35b9-906808c40985"
  },
  {
    "id": "VXRAILVIP470F1-01-01",
    "serial_number": "9HHNHL3",
    "psnt": "9HHNHL30000000",
    "host_name": "delle09156-02.localdomain.local",
    "appliance_id": "VXRAILVIP470F3",
    "slot": 1,
    "manufacturer": "Dell Inc.",
    "model": "VxRail P470F",
    "operational_status": "powering_off",
    "health": "Error",
    "power_status": "on",
    "led_status": "Blue:On",
    "tpm_present": false,
    "is_primary_node": true,
    "missing": false,
    "ip_set": {
      "management_ip": "192.168.106.183",
      "vsan_ip": "192.168.113.183",
      "vmotion_ip": "192.168.123.183"
    },
  },
]
```

```
"discovered_date": 1533460206,  
"cluster_affinity": true,  
"bios_uuid": "420ecd88-86ef-f775-f4d8-a101540bb5c4"  
}  
]
```

401

Unauthorized request.

403

Forbidden request.

404

Host not found.

500

Unexpected internal server error.

CHAPTER 4

VxRail eServices

The VxRail API supports using eServices including accessing the knowledge base, accessing the community, opening service requests, and using support chat.

- [GET /support/kb](#)..... 50
- [GET /support/kb/articles](#)..... 51
- [GET /support/community](#)..... 53
- [GET /support/community/messages](#)..... 54
- [GET /support/service-requests](#)..... 56
- [GET /support/chat-url](#)..... 57

GET /support/kb

Retrieves the VxRail Support Knowledge Base (KB) Home URL.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/kb
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

Response

200

Operation successful.

```
{
  "homeURL": "https://support.emc.com/products/39970_VxRail-
  Appliance",
  "articlesLink": "/rest/vxm/v1/support/kb/articles"
}
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

GET /support/kb/articles

Queries articles from VxRail Support knowledge base.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/kb/articles
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvcmVudHJlcnQ=`

searchText

The content the user wants to search for.

limit

The number of articles the user wants to query.

- Type: integer
- Default: 3

Examples

```
/support/kb/articles?searchText="VxRail"&limit=2
```

Response

Results

200

Operation successful.

```
[
  {
    "id": "ka1f100000GBiEAAW",
    "title": "Some useful PSQL commands for the VxRail",
    "url": "https://support.emc.com/kb/479126",
    "author": null,
    "date": "19/11/2017",
```

```

    "products": "VxRail Appliance Series,VxRail Appliance
Family",
    "audience": "Level 40 = Employees and Partners"
  },
  {
    "id": "ka2f1000000GBiEAAW",
    "title": "How to manually import vCenter SSL certificate
into VxRail",
    "url": "https://support.emc.com/kb/479127",
    "author": "Someone",
    "date": "20/11/2017",
    "products": "VxRail Appliance Series,VxRail Appliance
Family",
    "audience": "Level 40 = Employees and Partners"
  }
]

```

Error messages

400

The size of the limit is less than 1.

InvalidLimit

```
Invalid limit {0}.
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Failed with internal errors.

IncorrectSupportAccount

```
{
  "message": "Invalid support account."
}
```

InvalidKBData

```
{
  "message": "Unable to fetch or parse the articles data
from support.emc.com."
}
```

NetworkIssue

```
{
  "message": "Network issue."
}
```

DarksiteForbidden

This feature may be unavailable because VxRail Manager is disconnected from the Internet.

GET /support/community

Retrieves the VxRail community home URL

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/community
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters**Authorization**

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpwcmVudHNlc2FtZQ==

Response

200

Operation successful.

```
{
  "homeURL": "https://community.emc.com/community/products/vxrail",
  "messagesLink": "/rest/vxm/v1/support/community/messages"
}
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

GET /support/community/messages

Retrieves VxRail community messages

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/community/
messages
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters**Authorization**

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYGVuIHNlc2FtZQ==`

limit

The number of messages the user wants to query.

- Type: integer
- Default: 3

Example

```
/support/community/messages?limit=2
```

Responses

200

Operation successful.

```
[
  {
    "id": 242813,
    "type": "discussion",
    "title": "VxRail 3.5 Installation Question",
    "url": "https://community.emc.com/thread/242813",
    "author": "benoitbernard-de",
    "date": "2017-11-27T14:03:07.659+0000",
    "tags": [
```

```

    "vxrail"
  ],
  "status": "published",
  "viewCount": 78,
  "replyCount": 1,
  "resolved": "open"
},
{
  "id": 242814,
  "type": "discussion",
  "title": "VxRail 3.5 Installation Question",
  "url": "https://community.emc.com/thread/242813",
  "author": "benoitbernard-de",
  "date": "2017-11-27T14:03:07.659+0000",
  "tags": [
    "vxrail"
  ],
  "status": "published",
  "viewCount": 78,
  "replyCount": 1,
  "resolved": "open"
}
]

```

400

The size of the limit is more than the number of the existing messages or less than 1.

InvalidLimit

```
Invalid limit {0}.
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Failed with internal errors.

InvalidMessageData

```
Unable to fetch or parse the messages data from
community.emc.com
```

DarksiteForbidden

```
This feature may be unavailable because VxRail Manager is
disconnected from the Internet.
```

General Description

Unexpected internal server error.

GET /support/service-requests

Retrieves links for opening Service Requests (SRs). One link per node.

URL

`https://<VxRail IP address>/rest/vxm/v1/support/service-requests`

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

Response

200

Operation successful.

```
[
  {
    "url": "http://uemconnect.emc.com/servicecenter/createsr.htm?serialNo=VXRAILVIP470F601&type=Support",
    "appliance_psnt": "VXRAILVIP470F601"
  },
  {
    "url": "http://uemconnect.emc.com/servicecenter/createsr.htm?serialNo=VXRAILVIP470F602&type=Support",
    "appliance_psnt": "VXRAILVIP470F602"
  },
  {
    "url": "http://uemconnect.emc.com/servicecenter/createsr.htm?serialNo=VXRAILVIP470F603&type=Support",
    "appliance_psnt": "VXRAILVIP470F603"
  }
]
```


401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Unexpected internal server error.

GET /support/chat-url

Get a link for online chat with Support.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/chat-url
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters**Authorization**

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

Response

200

Operation successful.

```
http://uemconnect.emc.com/servicecenter/liveChat.htm?
serialNo=EMCVB150600013&type=Support
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Unexpected internal server error.

CHAPTER 5

VxRail Support

The VxRail API supports features related to Support, including setting the Support account and generating and retrieving logs.

- [GET /support/account](#)..... 60
- [POST /support/account](#)..... 61
- [PUT /support/account](#)..... 62
- [DELETE /support/account](#)..... 63
- [GET /support/logs](#)..... 64
- [POST /support/logs](#)..... 65
- [GET /support/logs/<logID>](#)..... 68
- [GET /support/logs/<logID>/download](#)..... 69

GET /support/account

Retrieve the current Support account set in VxRail.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/account
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvcmVudHh1c2FtZQ==`

Response

200

Operation successful.

```
{
  "username": "vxrail.test@emconlinesupport.com"
}
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

404

The support account was not found.

500

Failed with internal errors.

NetworkTimeout

```
Network connection timed out.
```

POST /support/account

Add a support account to VxRail Manager.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/account
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

SupportAccountSpec

(Required) The username and password of the support account.

username

(Required) The username of the support account.

password

(Required) The password of the support account.

Response

200

Operation successful.

400

The provided support account credentials are not valid.

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Failed with internal errors.

NetworkTimeout

```
Network connection timed out.
```

General Description

```
Unexpected internal server error.
```

DarksiteForbidden

```
This feature may be unavailable because VxRail Manager is disconnected from the Internet.
```

PUT /support/account

Change the Support account in VxRail.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/account
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters**Authorization**

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvcmVudHhlc2FtZQ==`

SupportAccountSpec

(Required) The username and password of the support account.

username

(Required) The username of the support account.

password

(Required) The password of the support account.

Response

200

Operation successful.

400

The provided support account credentials are not valid.

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

404

The support account was not found.

500

Failed with internal errors.

NetworkTimeout

```
Network connection timed out.
```

General Description

```
Unexpected internal server error.
```

DarksiteForbidden

This feature may be unavailable because VxRail Manager is disconnected from the Internet.

DELETE /support/account

Remove a support account from VxRail Manger.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/account
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

Response

200

Operation successful.

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

500

Failed with internal errors.

NetworkTimeout

```
Network connection timed out.
```

General Description

```
Unexpected internal server error.
```

DarksiteForbidden

```
This feature may be unavailable because VxRail Manager is disconnected from the Internet.
```

GET /support/logs

Queries all of the support logs.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/logs
```


Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHNlc2FtZQ==`

\$filter

(Required) The conditions for the query.

Responses

200

The operation finished successfully.

```
[
  {
    "id": "string",
    "types": ["vxm", "idrac"],
    "nodes": [
      "JHN3S62",
      "JHN1H62",
      "JHN1BC2"
    ],
    "creation_time": 0,
    "path": "string",
    "size": 0,
    "details": [
      "Failed to generate idrac log bundle on JHN3S62 due to the node is not idrac log supported.",
      "Failed to generate esxi log bundle on JHN1BC2 due to the node is disconnected."
    ]
  }
]
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

POST /support/logs

Collect the log with the specified types.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/logs
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

LogSpec

(Required) The types and nodes for log bundle collection.

types

(Required) The types of log to collect.

vxm

VxRail Manager logs.

vcenter

vCenter logs.

esxi

ESXi logs.

idrac

iDRAC logs.

ptagent

PTAgent logs.

witness

Witness logs.

nodes

(Optional) The serial numbers of nodes are specified.

autoclean

(Optional) The option to enable/disable log bundle auto clean if the capacity of VxRail Manager is enough.

Example

```
{
    types: ["vxm", "vcenter", "esxi"],
    nodes: ["JHN3S62", "JHN1H62", "JHN1BC2"],
    autoclean: true
}
```

Responses**202**

The request has been accepted for processing, but the processing has not been completed.

```
{
  "request_id": "9c50511f-9119-4351-83e0-38ce0a93c73e"
}
```

400

Invalid request parameters.

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

409

The log collection is running. Please wait for a while and then retry.

500

Failed with internal errors.

GeneralDescription

```
{
  "message": "Unexpected internal server error."
}
```

InsufficientCapacity

```
{
  "message": "Insufficient storage capacity."
}
```

GET /support/logs/<logID>

Queries the log by log ID.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/logs/<logID>
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	Yes	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHNlc2FtZQ==`

logId

(Required) The specific log that you want to query.

Response

200

Successful operation. The log information is returned with the response.

```
{
  "id": "string",
  "types": ["vxm", "idrac"],
  "nodes": [
    "JHN3S62",
    "JHN1H62",
    "JHN1BC2"
  ],
  "creation_time": 0,
  "path": "string",
  "size": 0,
  "details": [
    "Failed to generate idrac log bundle on JHN3S62 due to the node is not idrac log supported.",
    "Failed to generate esxi log bundle on JHN1BC2 due to the node is disconnected."
  ]
}
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

404

The log is not found.

500

Failed with internal errors.

GET /support/logs/<logID>/download

Download the binary stream of a log.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/logs/<logID>/download
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters**Authorization**

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUuIHNlc2FtZQ==`

logId

(Required) The specific log that you want to download.

Response

200

Successful operation. The log information is returned with the response.

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

404

The log ID is invalid.

CHAPTER 6

VxRail life cycle management (LCM)

The VxRail API supports a full upgrade of the VxRail appliance including profile and upgrade pre-check, upgrade process, and post-check.

- [POST /lcm/upgrade](#)..... 72
- [POST /lcm/upgrade](#)..... 73

POST /lcm/upgrade

Upgrades all VxRail software and hardware.

URL

```
<VxRail IP address>/rest/vxm/v1/lcm/upgrade
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	Yes	Yes	No	No	No	No

Request

Headers

Content Type

(Required) Value: application/json.

Accept

This header must be empty.

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvYVUyIHNLc2FtZQ==

Body properties

upgradeParams

(Required) The parameters required for upgrade.

```
[
  { /*Required*/
    "name": "lcm.composite.bundle",
    "value": <upgrade-bundle-file-name>
  },
  { /*Optional. The default value is 'root'.*/
    "name": "lcm.vxrail.root.username",
    "value": "root"
  },
  { /*Required*/
    "name": "lcm.vxrail.root.password",
    "value": <root password>
  }
  { /*Required*/
    "name": "lcm.vc.admin.username",
    "value": "<admin username>"
  },
  { /*Required*/
    "name": "lcm.vc.admin.password",
    "value": <admin password>
  }
]
```



```

}
{ /* Optional */ (Only needed for vCenter upgrade)
  "name": "lcm.psc.root.username",
  "value": "<root username>"
},
{ /* Optional */ (Only needed for vCenter upgrade)
  "name": "lcm.psc.root.password",
  "value": "<root password>"
},
{ /* Optional */ (Only needed for vCenter upgrade)
  "name": "lcm.vcsa.root.username",
  "value": "<root username>"
},
{ /* Optional */ (Only needed for vCenter upgrade)
  "name": "lcm.vcsa.root.password",
  "value": "<root password>"
}

```

Response

HTTP status code

200

The request has been accepted for processing, but the processing has not been completed. A `requestId` will be returned.

Error codes

401

The provided vCenter credentials are not valid.

403

Access to the requested resource is forbidden.

500

The request for operation status failed with errors.

POST /lcm/upgrade

Upgrades all VxRail software and hardware.

URL

```
<VxRail IP address>/rest/vxm/v1/lcm/upgrade
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Headers

Content Type

(Required) Value: application/json.

Accept

This header must be empty.

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==

Body properties

upgradeSpecs

(Required) The parameters required for upgrade.

```
required:
  - bundleFileLocator
  - vxRail
  - vcenter
bundle_file_locator:
  description: full path of the upgrade bundle
  type: string
vxrail:
  description: Information regarding the VxRail Manager
  type: object
  $ref: '#/parameters/VxRailManagerSpec'
vcenter:
  description: Define the access information of vCenter.
  type: object
  $ref: '#/parameters/VcenterSpec'
```

Example:

```
{
  "bundle_file_locator": "/tmp/
  VXRAIL_COMPOSITE-4.7.320-10688414_for_4.7.x_Min.zip",
  "vxrail": {
    "vxm_root_user": {
      "username": "root",
      "password": "foo"
    }
  },
  "vcenter": {
    "vc_admin_user": {
      "username": "administrator@vsphere.local",
      "password": "foo"
    },
    "vcsa_root_user": {
      "username": "root",
      "password": "foo"
    },
    "psc_root_user": {
      "username": "root",
```

```

        "password": "foo"
    },
    "migration_spec": {
        "source_vcsa_host": {
            "name": "vxrail34-esx-02.local",
            "user": {
                "username": "root",
                "password": "foo"
            }
        },
        "source_psc_host": {
            "name": "vxrail34-esx-02.local",
            "user": {
                "username": "root",
                "password": "foo"
            }
        },
        "target_vcsa_host": {
            "name": "vxrail34-esx-01.local",
            "user": {
                "username": "root",
                "password": "foo"
            }
        },
        "temporary_ip_setting": {
            "temporary_ip": "10.10.199.80",
            "gateway": "10.10.198.253",
            "netmask": "255.255.255.0"
        }
    }
}

```

VxRailManagerSpec

Information regarding the VxRail Manager

```

required:
  - vxmRootUser
properties:
  vxm_root_user:
    description: username and password of VxRail Manager
    root user
    type: object
    $ref: './common-model.yaml#/parameters/UserSpec'

```

VcenterSpec

Information regarding the vCenter.

```

required:
  - vcAdminUser
properties:
  vc_admin_user:
    description: credential for vCenter Admin user
    type: object
    $ref: './common-model.yaml#/parameters/UserSpec'
  vcsa_root_user:
    description: credentials for VCSA Root user. Required
    if the upgrade bundle contains vcenter component
    type: object

```

```

    $ref: './common-model.yaml#/parameters/UserSpec'
  psc_root_user:
    description: credentials for PSC Root user. Required if
the upgrade bundle contains vcenter component
    type: object
    $ref: './common-model.yaml#/parameters/UserSpec'
  migration_spec:
    description: Contains information required for
migration based vcenter upgrade
    type: object
    $ref: '#/parameters/VcenterMigrationSpec'

```

VcenterMigrationSpec

Information for vCenter migration based upgrade.

```

required:
- sourceVcsaHost
- sourcePscHost
- targetVcsaHost
- temporaryIpSetting
properties:
  source_vcsa_host:
    description: VxRail host information of the host on
which VCSA VM is currently on
    type: object
    $ref: '#/parameters/EsxiHostSpec'
  source_psc_host:
    description: VxRail host information of the host on
which PSC VM is currently on
    type: object
    $ref: '#/parameters/EsxiHostSpec'
  target_vcsa_host:
    description: VxRail host information of the host on
which VCSA/PSC VM is to be deployed on
    type: object
    $ref: '#/parameters/EsxiHostSpec'
  temporary_ip_setting:
    description: Temporary IP settings for the upgrade
    type: object
    $ref: '#/parameters/TemporaryIpSettingSpec'

```

TemporaryIpSettingSpec

Temporary IP settings for the vcenter upgrade.

```

required:
- temporaryIp
- gateway
- netmask
properties:
  temporary_ip:
    description: Temporary IP to be used during the vcenter
upgrade
    type: string
  gateway:
    description: Gateway to be used during the vcenter
upgrade
    type: string
  netmask:
    description: Netmask to be used during the vcenter

```

```
upgrade
  type: string
```

EsxiHostSpec

ESXi host information.

```
properties:
  name:
    description: hostname of the ESXi host.
    type: string
  user:
    description: User account credentials for ESXi host
    type: object
    $ref: './common-model.yaml#/parameters/UserSpec'
```

Response

HTTP status code

202

The request has been accepted for processing, but the processing has not been completed. A `requestId` will be returned and can be used to check the status of the processing.

Error codes

400

Invalid request parameters.

401

The provided vCenter credentials are not valid.

409

The request is rejected because the resource is busy. Possible scenarios include there's already an upgrade in progress, or some hardware operation is in progress.

500

The request for operation status failed with errors.

CHAPTER 7

VxRail cluster management

The VxRail API supports features related to cluster management, including removing a host from the cluster and shutting down the cluster.

- [POST /cluster/remove-host](#).....80
- [POST /cluster/shutdown](#)..... 81

POST /cluster/remove-host

Removes a host from the cluster.

URL

```
https://<VxRail IP address>/rest/vxm/v1/cluster/remove-host
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpwcmVudHNlc2FtZQ==`

removeHostSpec

(Required) The specified host to be removed.

```
description: information needed for node removal operation.
type: object
required:
  - serialNumber
  - vcAdminUser
  - vcsaRootUser
properties:
  serial_number:
    description: host serial number.
    type: String
    example: EMCVB150600030
  vc_admin_user:
    description: credential for vCenter Admin user
    type: object
    properties:
      username:
        description: username of the account
        type: string
      password:
        description: password of the account
        type: string
  vcsa_root_user:
    description: credentials for VCSA Root user.
    type: object
    properties:
      username:
        description: username of the account
        type: string
      password:
```



```
description: password of the account
type: string
```

Response

202

The request has been accepted for processing, but the processing has not been completed.

```
{
  "request_id": "9c50511f-9119-4351-83e0-38ce0a93c73e"
}
```

400

The cluster host removal parameters are not valid.

401

Username/password is not recognized.

403

Node removal is not supported for two-node ROBO cluster.

409

A conflicting operation is running. Please wait for a while and then retry.

500

Failed with internal errors.

GeneralDescription

```
{
  "message": "Unexpected internal server error."
}
```

POST /cluster/shutdown

Shuts down a cluster or performs a shutdown dry run.

URL

```
https://<VxRail IP address>/rest/vxm/v1/cluster/shutdown
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	Yes	Yes	Yes	Yes

Request**Parameters****Authorization**

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYGVuIHNlc2FtZQ==`

dryrun

Perform a dry run to check whether it's safe to shutdown.

Boolean. Default value = false.

Response**202**

The request has been accepted for processing, but the processing has not been completed. A ID will be returned and can be used to check the status of the processing.

```
{
  "request_id": "d737bd1d-a6fe-4277-9f26-20ee421cc140"
}
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

CHAPTER 8

iDRAC

The VxRail API supports querying and configuring VxRail hosts' iDRAC parameters.

- [GET /hosts/{sn}/idrac/available-user-ids](#)..... 84
- [GET /hosts/{sn}/idrac/users](#)..... 85
- [POST /hosts/{sn}/idrac/users](#)..... 86
- [PUT /hosts/{sn}/idrac/users/{userId}](#)..... 88
- [GET /hosts/{sn}/idrac/network](#)..... 90
- [PATCH /hosts/{sn}/idrac/network](#)..... 91

GET /hosts/{sn}/idrac/available-user-ids

Retrieves a list of the available iDRAC user slot IDs.

URL

```
https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}/idrac/available-user-ids
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	No	No	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpwcmVudHNlc2FtZQ==`

sn

(Required) The serial number of the host to be queried.

Response

200

Operation successful.

Example

```
[
  4,
  5,
  6,
  7,
  8,
  10,
  11,
  12,
  13,
  14
]
```

401

Unauthorized request.

Example

```
[
  {
    "id": 2,
    "name": "root",
    "privilege": "ADMIN"
  },
  {
    "id": 3,
    "name": "testuser",
    "privilege": "ADMIN"
  },
  {
    "id": 9,
    "name": "testuser3",
    "privilege": "ADMIN"
  },
  {
    "id": 15,
    "name": "vxpsvc",
    "privilege": "ADMIN"
  },
  {
    "id": 16,
    "name": "PTADMIN",
    "privilege": "ADMIN"
  }
]
```

401

Unauthorized request.

403

Forbidden request.

404

Host not found.

500

Unexpected internal error.

unknownError

```
Internal error: Error message from PS: /usr/lib/vmware-marvin/
marvind/webapps/ROOT/WEB-INF/classes/scripts/esxcli-client.py
(No such file or directory)
```

POST /hosts/{sn}/idrac/users

Creates an iDRAC user account.

URL

```
https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}/idrac/users
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	No	No	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYGVuIHN1c2FtZQ==`

sn

(Required) The serial number of the host to be queried.

IdracUserCreateSpec

(Required) The iDRAC user account information for the user to be created.

id

The iDRAC user slot ID

name

(required) The iDRAC user name.

password

(Required) The iDRAC user password.

privilege

(Required) The permissions (privilege) of the iDRAC user. Can be set to ADMIN, OPER, or READONLY.

Example:

```
id: 5
name: "testuser"
password: "testpwd"
privilege: "ADMIN"
```

Response

202

Operation successful.

The request has been accepted for processing, but the processing has not been completed. A requestId will be returned and can be used to check the status of the processing.

Example

```
{
  "request_id": "SBI_1333"
}
```

- 400**
Invalid request parameters.
- 401**
Unauthorized request.
- 403**
Forbidden request.
- 404**
Host not found.

PUT /hosts/{sn}/idrac/users/{userId}

Updates an iDRAC user account.

URL

```
https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}/idrac/users/{userId}
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	No	No	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpwvcGVuIHhlc2FtZQ==`

sn

(Required) The serial number of the host to be queried.

userId

(Required) The unique identifier of the iDRAC user. The user ID range is 3 through 16.

IdracUserUpdateSpec

(Required) The iDRAC user account information for the user to be updated.

name

(required) The iDRAC user name.

password

(Required) The iDRAC user password.

privilege

(Required) The permissions (privilege) of the iDRAC user. Can be set to ADMIN, OPER, or READONLY.

Example:

```
id: 5
name: "testuser"
password: "testpwd"
privilege: "ADMIN"
```

Response

202

Operation successful.

The request has been accepted for processing, but the processing has not been completed. A requestId will be returned and can be used to check the status of the processing.

Example

```
{
  "request_id": "SBI_1333"
}
```

400

Invalid request parameters.

401

Unauthorized request.

403

Forbidden request.

404

Host not found.

GET /hosts/{sn}/idrac/network

Retrieves the iDRAC network settings on the specified host.

URL

```
https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}/idrac/network
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	No	No	Yes	Yes

Request

Parameters

Authorization

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHNlc2FtZQ==`

sn

(Required) The serial number of the host to be queried.

Response

200

Operation successful.

Example

```
{
  "ip": {
    "type": "ipv4",
    "ip_address": "192.168.102.33",
    "netmask": "255.255.255.0",
    "gateway": "192.168.102.1"
  },
  "dhcp_enabled": false,
  "vlan": {
    "vlan_id": 0,
    "vlan_priority": 0
  }
}
```

401

Unauthorized request.

403

Forbidden request.

404

Host not found.

500

Unexpected internal server error.

unknownError

```
Internal error: Error message from PS: /usr/lib/vmware-marvin/marvind/webapps/ROOT/WEB-INF/classes/scripts/esxcli-client.py (No such file or directory)
```

PATCH /hosts/{sn}/idrac/network

Updates the iDRAC network settings on the specified host.

URL

```
https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}/idrac/network
```

Version support

VxRail version:	4.5.0xx	4.5.2xx	4.5.3xx	4.7.0xx	4.7.1xx	4.7.2xx
Supported:	No	No	No	No	Yes	Yes

Request

Parameters**Authorization**

(Required) Username and password encoded with Base64

Example value: `Basic QWxhZGRpbjpvYVUyIHh1c2FtZQ==`

sn

(Required) The serial number of the host to be queried.

IdracNetworkSpec

(Required) The network parameters for the iDRAC network.

ip

The IP information for the iDRAC.

type

The VLAN id setting for the iDRAC network. Only IPv4 is supported in the current version.

ip_address

The MAC address of the iDRAC.

netmask

The netmask for the iDRAC.

gateway

The gateway for the iDRAC network.

dhcp_enabled

Sets if DHCP service is enabled or not.

vlan

The IPv4 address of the iDRAC.

vlan_id

The VLAN ID setting of the iDRAC. 0 means disabled.

vlan_priority

The VLAN priority of the iDRAC.

Response

202

```
The request has been accepted for processing, but the
processing has not been completed. A requestId will be returned
and can be used to check the status of the processing.
```

Example

```
{
  "request_id": "SBI_1333"
}
```

400

Invalid request parameters.

401

Unauthorized request.

403

Forbidden request.

404

Host not found.