



NetApp SolidFire Python SDK Release Notes

Version: v1.2

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TABLE OF CONTENTS

Introduction	. 4
Support Matrix	. 4
Installing the SolidFire Python SDK from PyPI	. 5
Installing the SolidFire Python SDK from Source Control	5
What's New in this Release	. 5
New SolidFire SDK API Methods	. 5
All SolidFire SDK API Methods	7
Contacting SolidFire SDK Support	13

Introduction

The SolidFire Python SDK is a collection of software modules and libraries that facilitate integration and orchestration between proprietary systems and third-party applications. The Python SDK allows developers to deeply integrate SolidFire system API with their Python programming language. The SolidFire Python SDK reduces the amount of additional coding time required for integration.

The Python SDK is available from PyPI, GitHub, and BrickFTP.

The intended audience for this document is Python developers who are responsible for integrating SolidFire into other applications.

Support Matrix

The SolidFire Python SDK supports the following software.

Component	Versions
Python	Python 2: 2.7 and later Python 3: 3.3 or later
SolidFire Element OS	7.0 through 9.0

Installing the SolidFire Python SDK from PyPI

You can globally install the SolidFire Python SDK from PyPI using pip.

Prerequisites

• pip version 1.3 or later must be installed globally.

Procedure

NOTE: NetApp SolidFire recommends virtualenv to isolate your Python environment to only the required libraries.

1. Type the following command in pip:

```
pip install solidfire-sdk-python
```

2. Review the GitHub project page for examples of higher level classes and links to supplemental documentation.

Installing the SolidFire Python SDK from Source Control

You can install the SolidFire Python SDK from GitHub to edit the source code or clone the project for development purposes.

Procedure

NOTE: SolidFire recommends virtualenv to isolate your Python environment to only the required libraries.

- 1. Install the SolidFire Python SDK:
 - Install from a branch in source control:

```
pip install -e git+https://github.com/solidfire/solidfire-sdk-
python.git@develop#egg=solidfire-sdk-python
```

· Alternatively, create a local clone of the repository for development purposes or to inspect the source code:

```
git clone git@github.com:solidfire/solidfire-sdk-python.git cd solidfire-sdk-python git checkout develop pip install -e ".[dev,test, docs, release]" python setup.py install
```

2. Append the SolidFire directory location to your **PYTHONPATH** environment variable. This enables you to use the SolidFire Python SDK in other Python scripts.

```
export PYTHONPATH=$PYTHONPATH:/path/to/sf-python-sdk/
```

3. Review the GitHub project page for examples of higher level classes and links to supplemental documentation.

What's New in this Release

The Python SDK version 1.2 release expands the set of available SolidFire Element OS APIs from version 7.0 through version 9.0.

New SolidFire SDK API Methods

The following new SolidFire API methods are available in Python wrappers in SolidFire Python SDK version 1.2:

Element OS 9	Element OS 8
CancelClone	AddLdapClusterAdmin
CancelGroupClone	CreateCluster
CopyVolume	CreateSupportBundle
CreateInitiators	DeleteAllSupportBundles
CreateStorageContainer	DisableLdapAuthentication
CreateVirtualVolumeHost	EnableLdapAuthentication
DeleteInitiators	GetBootstrapConfig
DeleteStorageContainers	GetClusterHardwareInfo
DeleteVolumes	GetClusterMasterNodeID
EnableFeature	GetClusterState
GetFeatureStatus	GetDefaultQoS
GetHardwareInfo	GetDriveConfig
GetStorageContainerEfficiency	GetHardwareConfig
GetVirtualVolumeCount	GetLdapConfiguration
GetVirtualVolumeTaskUpdate	GetLoginSessionInfo
GetVirtualVolumeUnsharedChunks	GetNodeHardwareInfo
InvokeSFApi	GetNtpInfo
ListDriveStats	GetNvramInfo
ListInitiators	GetPendingOperation
ListProtocolEndpoints	GetRemoteLoggingHosts
ListStorageContainers	GetSystemStatus
ListVirtualVolumeBindings	GetVolumeAccessGroupLunAssignments
ListVirtualVolumeHosts	ListAsyncResults
ListVirtualVolumes	ListBulkVolumeJobs
ListVirtualVolumeTasks	ListFibreChannelPortInfo
ListVolumeStats	ListFibreChannelSessions
ListVolumeStatsByVirtualVolume	ListNodeFibreChannelPortInfo
ModifyInitiators	ListSyncJobs
ModifyStorageContainer	ModifyVolumeAccessGroupLunAssignments
PrepareVirtualSnapshot	ModifyVolumes
PurgeDeletedVolumes	SetLoginSessionInfo
SetDefaultQoS	SetNtpInfo

Element OS 9	Element OS 8	
	SetRemoteLoggingHosts	
	StartBulkVolumeRead	
	StartBulkVolumeWrite	
	TestLdapAuthentication	
	UpdateBulkVolumeStatus	

All SolidFire SDK API Methods

The following SolidFire API methods are available in Python wrappers in SolidFire Python SDK version 1.2:

Element OS 9	Element OS 8	Element OS 7
AddAccount	AddAccount	AddAccount
AddClusterAdmin	AddClusterAdmin	
AddDrives	AddDrives	
AddInitiatorsToVolumeAccessGroup	AddInitiatorsToVolumeAccessGroup	AddInitiatorsToVolumeAccessGroup
AddLdapClusterAdmin		
AddLdapClusterAdmin	AddLdapClusterAdmin	
AddNodes	AddNodes	
AddVirtualNetwork	AddVirtualNetwork	
AddVolumesToVolumeAccessGroup	AddVolumesToVolumeAccessGroup	AddVolumesToVolumeAccessGroup
CancelClone		
CancelGroupClone		
ClearClusterFaults	ClearClusterFaults	
CloneMultipleVolumes	CloneMultipleVolumes	
CloneVolume	CloneVolume	CloneVolume
CompleteClusterPairing	CompleteClusterPairing	
CompleteVolumePairing	CompleteVolumePairing	
CopyVolume		
CreateBackupTarget	CreateBackupTarget	
CreateCluster	CreateCluster	
CreateGroupSnapshot	CreateGroupSnapshot	CreateGroupSnapshot
CreateInitiators		
CreateSchedule	CreateSchedule	
CreateSnapshot	CreateSnapshot	CreateSnapshot

Element OS 9	Element OS 8	Element OS 7
CreateStorageContainer		
CreateSupportBundle	CreateSupportBundle	
CreateVirtualVolumeHost		
CreateVolume	CreateVolume	CreateVolume
CreateVolumeAccessGroup	CreateVolumeAccessGroup	CreateVolumeAccessGroup
DeleteAllSupportBundles	DeleteAllSupportBundles	
DeleteGroupSnapshot	DeleteGroupSnapshot	DeleteGroupSnapshot
DeleteInitiators		
DeleteSnapshot	DeleteSnapshot	DeleteSnapshot
DeleteStorageContainers		
DeleteVolume	DeleteVolume	DeleteVolume
DeleteVolumeAccessGroup	DeleteVolumeAccessGroup	DeleteVolumeAccessGroup
DeleteVolumes		
DisableEncryptionAtRest	DisableEncryptionAtRest	
DisableLdapAuthentication	DisableLdapAuthentication	
DisableSnmp	DisableSnmp	
EnableEncryptionAtRest	EnableEncryptionAtRest	
EnableFeature		
EnableLdapAuthentication	EnableLdapAuthentication	
EnableSnmp	EnableSnmp	
GetAccountByID	GetAccountByID	GetAccountByID
GetAccountByName	GetAccountByName	GetAccountByName
GetAccountEfficiency	GetAccountEfficiency	
GetAPI	GetAPI	GetAPI
GetAsyncResult	GetAsyncResult	GetAsyncResult
GetBackupTarget	GetBackupTarget	
GetBootstrapConfig	GetBootstrapConfig	
GetClusterCapacity	GetClusterCapacity	
GetClusterConfig	GetClusterConfig	
GetClusterFullThreshold	GetClusterFullThreshold	
GetClusterHardwareInfo	GetClusterHardwareInfo	
GetClusterInfo	GetClusterInfo	

Element OS 9	Element OS 8	Element OS 7
GetClusterMasterNodeID	GetClusterMasterNodeID	
GetClusterState	GetClusterState	
GetClusterStats	GetClusterStats	
GetClusterVersionInfo	GetClusterVersionInfo	
GetCompleteStats	GetCompleteStats	
GetConfig	GetConfig	
GetCurrentClusterAdmin	GetCurrentClusterAdmin	
GetDefaultQoS	GetDefaultQoS	
GetDriveConfig	GetDriveConfig	
GetDriveHardwareInfo	GetDriveHardwareInfo	
GetDriveStats	GetDriveStats	
GetFeatureStatus		
GetHardwareConfig	GetHardwareConfig	
GetHardwareInfo		
GetLdapConfiguration	GetLdapConfiguration	
GetLimits	GetLimits	
GetLoginSessionInfo	GetLoginSessionInfo	
GetNetworkConfig	GetNetworkConfig	
GetNodeHardwareInfo	GetNodeHardwareInfo	
GetNodeStats	GetNodeStats	
GetNtpInfo	GetNtpInfo	
GetNvramInfo	GetNvramInfo	
GetPendingOperation	GetPendingOperation	
GetRawStats	GetRawStats	
GetRemoteLoggingHosts	GetRemoteLoggingHosts	
GetSchedule	GetSchedule	
GetSnmpACL	GetSnmpACL	
GetSnmpInfo	GetSnmpInfo	
GetSnmpState	GetSnmpState	
GetSnmpTrapInfo	GetSnmpTrapInfo	
GetStorageContainerEfficiency		
GetSystemStatus	GetSystemStatus	

Element OS 9	Element OS 8	Element OS 7
GetVirtualVolumeCount		
GetVirtualVolumeTaskUpdate		
GetVirtualVolumeUnsharedChunks		
GetVolumeAccessGroupEfficiency	GetVolumeAccessGroupEfficiency	
GetVolumeAccessGroupLunAssignments	GetVolumeAccessGroupLunAssignments	
GetVolumeEfficiency	GetVolumeEfficiency	GetVolumeEfficiency
GetVolumeStats	GetVolumeStats	GetVolumeStats
InvokeSFApi		
ListAccounts	ListAccounts	ListAccounts
ListActiveNodes	ListActiveNodes	
ListActivePairedVolumes	ListActivePairedVolumes	
ListActiveVolumes	ListActiveVolumes	ListActiveVolumes
ListAllNodes	ListAllNodes	
ListAsyncResults	ListAsyncResults	
ListBackupTargets	ListBackupTargets	
ListBulkVolumeJobs	ListBulkVolumeJobs	
ListClusterAdmins	ListClusterAdmins	
ListClusterFaults	ListClusterFaults	
ListClusterPairs	ListClusterPairs	
ListDeletedVolumes	ListDeletedVolumes	ListDeletedVolumes
ListDriveHardware	ListDriveHardware	
ListDrives	ListDrives	
ListDriveStats		
ListEvents	ListEvents	
ListFibreChannelPortInfo	ListFibreChannelPortInfo	
ListFibreChannelSessions	ListFibreChannelSessions	
ListGroupSnapshots	ListGroupSnapshots	ListGroupSnapshots
ListInitiators		
ListISCSISessions	ListISCSISessions	
ListNodeFibreChannelPortInfo	ListNodeFibreChannelPortInfo	
ListNodeStats	ListNodeStats	
ListPendingNodes	ListPendingNodes	

Element OS 9	Element OS 8	Element OS 7
ListProtocolEndpoints		
ListSchedules	ListSchedules	
ListSnapshots	ListSnapshots	ListSnapshots
ListStorageContainers		
ListSyncJobs	ListSyncJobs	
ListTests	ListTests	
ListUtilities	ListUtilities	
ListVirtualNetworks	ListVirtualNetworks	
ListVirtualVolumeBindings		
ListVirtualVolumeHosts		
ListVirtualVolumes		
ListVirtualVolumeTasks		
ListVolumeAccessGroups	ListVolumeAccessGroups	ListVolumeAccessGroups
ListVolumes	ListVolumes	
ListVolumesForAccount	ListVolumesForAccount	ListVolumesForAccount
ListVolumeStats		
ListVolumeStatsByAccount	ListVolumeStatsByAccount	ListVolumeStatsByAccount
ListVolumeStatsByVirtualVolume		
ListVolumeStatsByVolume	ListVolumeStatsByVolume	ListVolumeStatsByVolume
ListVolumeStatsByVolumeAccessGroup	ListVolumeStatsByVolumeAccessGroup	ListVolumeStatsByVolumeAccessGroup
ModifyAccount	ModifyAccount	ModifyAccount
ModifyBackupTarget	ModifyBackupTarget	
ModifyClusterAdmin	ModifyClusterAdmin	
ModifyClusterFullThreshold	ModifyClusterFullThreshold	
ModifyGroupSnapshot	ModifyGroupSnapshot	
ModifyInitiators		
ModifySchedule	ModifySchedule	
ModifySnapshot	ModifySnapshot	
ModifyStorageContainer		
ModifyVirtualNetwork	ModifyVirtualNetwork	
ModifyVolume	ModifyVolume	ModifyVolume
ModifyVolumeAccessGroup	ModifyVolumeAccessGroup	ModifyVolumeAccessGroup

ModifyVolumeAccessGroupLunAssignment is and ModifyVolumePair ModifyVolumePair ModifyVolumeS ModifyVolumeS ModifyVolumeS ModifyVolumeS ModifyVolumeS ModifyVolumeS ModifyVolumeS ModifyVolumeS PrepareVirtualSnapshot PrepareVirtualSnapshot PrepareVirtualSnapshot PrepareVirtualSnapshot PurgeDeletedVolume PurgeDeletedVolumeAccesors PurgeDe	Element OS 9	Element OS 8	Element OS 7
ModifyVolumes ModifyVolumes PrepareVirtualSnapshot PurgeDeletedVolume PurgeDeletedVolume PurgeDeletedVolumes PurgeDeletedVolume PurgeDeletedVolume RemoveAccount RemoveBackupTarget RemoveBackupTarget RemoveBackupTarget RemoveBackupTarget RemoveClusterAdmin RemoveClusterPair RemoveClusterPair RemoveDrives RemoveDrives RemoveDrives RemoveInitiatorsFromVolumeAccessGroup provintiatorsFromVolumeAccessGroup provintialNetwork RemoveNodes RemoveVolumeAccessGroup RemoveVolumeAccessGroup provintialNetwork RemoveVolumePair RemoveVolumeAccessGroup provintialNetwork RemoveVolumeAccessGroup RemoveVolumeAccessGroup provintialNetwork RemoveVolumeAccessGroup provintialNetwork RemoveVolumeAccessGroup provintialNetwork ResetDrives ResetDrives ResetDrives ResetDrives ResetDrives ResetDrives RestoreDeletedVolume RestoreDeletedVolume RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToGroupSnapshot SetClusterConfig SetClusterConfig SetClusterConfig			
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PurgeDeletedVolume PurgeDeletedVolume PurgeDeletedVolumes PurgeDeletedVolume RemoveAccount RemoveAccount RemoveAccount RemoveBackupTarget RemoveBackupTarget RemoveClusterAdmin RemoveClusterPair RemoveClusterPair RemoveDrives RemoveDrives RemoveDrives RemoveDrives RemoveInitiatorsFromVolumeAccessGroup RemoveInitiatorsFromVolumeAccessGroup population RemoveInitiatorsFromVolumeAccessGroup population RemoveNodes RemoveNodes RemoveVolumeAccessGroup population RemoveVolumeAccessGroup population RemoveVolumePair RemoveVolumePair RemoveVolumeAccessGroup population RemoveVolumeAccessGroup population RestoreDeletedVolume RestoreDeletedVolume RestoreDeletedVolume RestoreDeletedVolume RestoreDeletedVolume RestoreDeletedVolume RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToSnapshot RollbackToGnapshot RollbackToGnapshot SetClusterConfig SetClusterConfig SetClusterConfig SetClusterConfig SetClusterConfig SetClusterConfig SetDefaultQoS <td>ModifyVolumes</td> <td>ModifyVolumes</td> <td></td>	ModifyVolumes	ModifyVolumes	
RemoveAccount RemoveAccount RemoveAccount RemoveAccount RemoveAccount RemoveBackupTarget RemoveBackupTarget RemoveClusterAdmin RemoveClusterAdmin RemoveClusterPair RemoveClusterPair RemoveClusterPair RemoveDrives RemoveInitiatorsFromVolumeAccessGroup RemoveInitiatorsFromVolumeAccessGroup RemoveInitiatorsFromVolumeAccessGroup Province RemoveInitiatorsFromVolumeAccessGroup RemoveInitiatorsFromVolumeAccessGroup Province RemoveVirtualNetwork RemoveVirtualNetwork RemoveVolumePair RemoveVolumePair RemoveVolumeAccessGroup ResetDrives ResetDrives ResetDrives ResetDrives RestoreDeletedVolume RestoreDeletedVolume RestoreDeletedVolume RestoreDeletedVolume RestoreDeletedVolume RestoreDeletedVolume RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToGnapshot RollbackToG	PrepareVirtualSnapshot		
RemoveAccount RemoveAccount RemoveAccount RemoveBackupTarget RemoveBackupTarget RemoveClusterAdmin RemoveClusterAdmin RemoveDrives RemoveDrives RemoveInitiatorsFromVolumeAccessGroup RemoveInitiatorsFromVolumeAccessGroup proventiatorsFromVolumeAccessGroup proventiatorsFromVolumeAccesGroup proventiatorsFromVolumeAccesGroup proventiatorsFromVolumeAccessGroup proventiatorsFromVo	PurgeDeletedVolume	PurgeDeletedVolume	PurgeDeletedVolume
RemoveBackupTarget RemoveClusterAdmin RemoveClusterAdmin RemoveClusterPair RemoveDrives RemoveDrives RemoveInitiatorsFromVolumeAccessGroup RemoveVolumeSromVolumeAccessGroup RemoveVolumeSromVolumeAccessGroup RemoveVolumeSromVolumeAccessGroup RemoveVolumeSromVolumeAccessGroup RemoveVolumeAccessGroup	PurgeDeletedVolumes		
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RemoveInitiatorsFromVolumeAccessGroup RemoveInitiatorsFromVolumeAccessGroup RemoveInitiatorsFromVolumeAccessGroup RemoveVirtualNetwork RemoveVirtualNetwork RemoveVolumePair RemoveVolumeAccessGroup RemoveVolumeAccessGroup RemoveVolumesFromVolumeAccessGroup ResetDrives ResetDrives RestoreDeletedVolume RestoreDeletedVolume RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToSnapshot RollbackToSnapshot RollbackToSnapshot SecureEraseDrives SecureEraseDrives SetClusterConfig SetClusterConfig SetDefaultQoS SetLoginSessionInfo SetNetworkConfig SetNetworkConfig SetNetworkConfig SetNetworkConfig SetNetpInfo SetNtpInfo SetRemoteLoggingHosts SetRemoteLoggingHosts	RemoveClusterPair	RemoveClusterPair	
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RestoreDeletedVolume RestoreDeletedVolume RestoreDeletedVolume RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToSnapshot RollbackToSnapshot RollbackToSnapshot SecureEraseDrives SecureEraseDrives SetClusterConfig SetConfig SetConfig SetConfig SetDefaultQoS SetLoginSessionInfo SetLoginSessionInfo SetNetworkConfig SetNetworkConfig SetNetworkConfig SetNtpInfo SetRemoteLoggingHosts SetSnmpACL SetSnmpACL RollbackToGroupSnapshot RollbackToSnapshot RollbackToSnapshot RollbackToSnapshot RollbackToGroupSnapshot RollbackToGnapshot Roll	RemoveVolumesFromVolumeAccessGroup	RemoveVolumesFromVolumeAccessGroup	
RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToGroupSnapshot RollbackToSnapshot SecureEraseDrives SetClusterConfig SetClusterConfig SetClusterConfig SetConfig SetConfig SetConfig SetDefaultQoS SetLoginSessionInfo SetLoginSessionInfo SetNetworkConfig SetNetworkConfig SetNetworkConfig SetNetworkConfig SetNtpInfo SetNtpInfo SetRemoteLoggingHosts SetRemoteLoggingHosts SetSnmpACL SetSnmpACL	ResetDrives	ResetDrives	
RollbackToSnapshot SetCusterConfig SetConfig SetConfig SetConfig SetLoginSessionInfo SetLoginSessionInfo SetNetworkConfig SetNetworkConfig SetNetworkConfig SetNetpInfo SetNtpInfo SetRemoteLoggingHosts SetRemoteLoggingHosts SetSnmpACL	RestoreDeletedVolume	RestoreDeletedVolume	RestoreDeletedVolume
SecureEraseDrives SecureEraseDrives SetClusterConfig SetClusterConfig SetConfig SetConfig SetDefaultQoS SetLoginSessionInfo SetLoginSessionInfo SetLoginSessionInfo SetNetworkConfig SetNetworkConfig SetNtpInfo SetNtpInfo SetRemoteLoggingHosts SetRemoteLoggingHosts SetSnmpACL SetSnmpACL	RollbackToGroupSnapshot	RollbackToGroupSnapshot	RollbackToGroupSnapshot
SetClusterConfig SetClusterConfig SetConfig SetConfig SetDefaultQoS SetLoginSessionInfo SetLoginSessionInfo SetLoginSessionInfo SetNetworkConfig SetNetworkConfig SetNtpInfo SetNtpInfo SetRemoteLoggingHosts SetRemoteLoggingHosts SetSnmpACL SetSnmpACL	RollbackToSnapshot	RollbackToSnapshot	RollbackToSnapshot
SetConfig SetConfig SetDefaultQoS SetLoginSessionInfo SetLoginSessionInfo SetLoginSessionInfo SetNetworkConfig SetNetworkConfig SetNtpInfo SetNtpInfo SetRemoteLoggingHosts SetRemoteLoggingHosts SetSnmpACL SetSnmpACL	SecureEraseDrives	SecureEraseDrives	
SetDefaultQoS SetLoginSessionInfo SetLoginSessionInfo SetNetworkConfig SetNetworkConfig SetNtpInfo SetNtpInfo SetRemoteLoggingHosts SetRemoteLoggingHosts SetSnmpACL SetSnmpACL	SetClusterConfig	SetClusterConfig	
SetLoginSessionInfoSetLoginSessionInfoSetNetworkConfigSetNetworkConfigSetNtpInfoSetNtpInfoSetRemoteLoggingHostsSetRemoteLoggingHostsSetSnmpACLSetSnmpACL	SetConfig	SetConfig	
SetNetworkConfig SetNetworkConfig SetNtpInfo SetNtpInfo SetRemoteLoggingHosts SetRemoteLoggingHosts SetSnmpACL SetSnmpACL	SetDefaultQoS		
SetNtpInfo SetNtpInfo SetRemoteLoggingHosts SetRemoteLoggingHosts SetSnmpACL SetSnmpACL	SetLoginSessionInfo	SetLoginSessionInfo	
SetRemoteLoggingHosts SetRemoteLoggingHosts SetSnmpACL SetSnmpACL	SetNetworkConfig	SetNetworkConfig	
SetSnmpACL SetSnmpACL	SetNtpInfo	SetNtpInfo	
	SetRemoteLoggingHosts	SetRemoteLoggingHosts	
SetSnmpInfo SetSnmpInfo	SetSnmpACL	SetSnmpACL	
	SetSnmpInfo	SetSnmpInfo	

Element OS 9	Element OS 8	Element OS 7
SetSnmpTrapInfo	SetSnmpTrapInfo	
SnmpSendTestTraps	SnmpSendTestTraps	
StartBulkVolumeRead	StartBulkVolumeRead	
StartBulkVolumeWrite	StartBulkVolumeWrite	
StartClusterPairing	StartClusterPairing	
StartVolumePairing	StartVolumePairing	
TestConnectEnsemble	TestConnectEnsemble	
TestConnectMvip	TestConnectMvip	
TestConnectSvip	TestConnectSvip	
TestDrives	TestDrives	
TestLdapAuthentication	TestLdapAuthentication	
TestPing	TestPing	
UpdateBulkVolumeStatus	UpdateBulkVolumeStatus	

For more detail on SolidFire API methods, refer to the SolidFire Element API Reference Guide for your operating system.

Contacting SolidFire SDK Support

If you have any questions or comments about this product, contact <u>ng-sf-host-integrations-sdk@netapp.com</u> or reach out to the development community at <u>ThePub</u>. Your feedback helps us focus our efforts on new features and capabilities.



1048 Pearl Street, Suite 250 Boulder, Colorado 80302

Phone: 720.523.3278 Email: <u>info@solidfire.com</u> Web: <u>www.solidfire.com</u>

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1/24/17